



**ENVIRONMENTAL • GEOTECHNICAL  
BUILDING SCIENCES • MATERIALS TESTING**

**PHASE II LIMITED SUBSURFACE INVESTIGATION  
FORMER AEP TANNER'S CREEK GENERATING STATION  
800 AEP DRIVE  
LAWRENCEBURG, INDIANA 47025**

**ATC PROJECT NO. 170EM00522**

**December 4, 2018**

Prepared For:

Ms. Andrea L. Hermer  
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Indianapolis, Indiana 46204



December 4, 2018

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Re: Phase II Limited Subsurface Investigation  
Former AEP Tanner's Creek Generating Station  
800 AEP Drive  
Lawrenceburg, Indiana 47025  
ATC Project No.: 170EM00522

Dear Ms. Hermer:

ATC Group Services, LLC (ATC) is pleased to provide Ports of Indiana (Client) with this report documenting a Phase II Limited Subsurface Investigation (LSI) that was conducted at the former AEP Tanner's Creek Generating Station located at 800 AEP Drive in Lawrenceburg, Indiana. The work performed, findings and conclusions of the LSI are provided in this submittal.

We appreciate the opportunity to be of service to you on this project. Please contact either of the undersigned should you have any questions, comments or concerns.

Sincerely,

A handwritten signature in black ink that reads 'Joshua Price'.

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Enc: Phase II Limited Subsurface Investigation

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# 1 Introduction

ATC Group Services, LLC (ATC) was retained by the Ports of Indiana (POI) to perform a Phase II Limited Subsurface Investigation (LSI), located at the former AEP Tanner's Creek Generating Station located at 800 AEP Drive in Lawrenceburg, Indiana, herein referred to as ("the Site"). A Vicinity Map is included as **Figure 1** and a Site Plan is included as **Figure 2**. Additionally, a labelled topographic map provided by American Electric Power (AEP) is provided with **Figure 1**.

## 1.1 Background Information

The former AEP Tanner's Creek Generating Station consists of approximately 732.9 acres of land and is located along the northwest bank of the Ohio River bordering Indiana and Ohio. The facility consists of vacant fields, coal ash ponds, and the former electrical power generating station facility, which was actively being demolished during initial field activities. A rail line crosses through the approximate center of the facility, running east to west. Tanners Creek runs through the facility from the northeast to the south.

For the purposes of this Phase II ESA, the Site was divided into two areas: Area 1 and Area 2. Area 1 is located on the east side of Tanner's Creek. Area 1 is approximately 275 acres and includes the main ash pond, bottom ash pond located northeast of the main ash pond, multiple buildings, boiler slag pond located northeast of the former plant area, various equipment, a water intake, three outfalls, and various tanks and waste storage areas associated with facility operations. Area 2 is approximately 458 acres, is located on the west side of Tanners Creek, and includes a fly ash pond and a Type I landfill.

The objective of this investigation was to investigate the *recognized environmental conditions (RECs)* identified in a Phase I Environmental Site Assessment (Phase I) completed by Keramida, Inc., dated December 15, 2017 and a Phase I ESA Update performed by ATC, dated May 2, 2018. Multiple recognized environmental conditions were identified at the Site, and are presented in tabular form below:

Area of Interest	Name	Description
1	Coal Ash Ponds	Two coal ash ponds exist on-Site: Main Ash Pond, and a Bottom Ash Pond. Potential contaminants may include the following constituents: metals and semi-volatile organic compounds (SVOCs).
2	Coal Pile Staging	A coal pile staging area was identified southwest of the generating station. An additional area, leased by Gibbco, was used as a boiler slag staging area and a boiler slag waste pond. Potential contaminants may include: SVOCs and metals.
3	Unregulated Heating Oil Tanks	Five tanks were removed from the Site in 1994. No closure documentation was provided regarding tank removal. Potential contaminants may include: SVOCs and VOCs.
4	Leaking Underground Storage Tanks (LUST)	Three LUST incidents were reported by the Indiana Department of Environmental Management (IDEM) in 1989, 1994, and 1995. All reported incidents have since received a No Further Action (NFA) status. A fourth LUST incident was reported and was related to closure of a used oil sump. No additional information was reported as related to the fourth event. Based on the new IDEM Closure Guidance and screening levels, potential contaminants associated with these areas may include: VOCs, SVOCs, and metals.
5	Leaking Fuel Oil / Chemical Metal Waste Cleaning Aboveground Storage Tanks (ASTs)	According to the Phase I, fuel oil storage and chemical waste cleaning tanks were formerly located in a lined pit. The pit is currently empty and the liner was noted by Keramida to be in poor condition. No AST removal documentation was available for review. Potential contaminants may include: SVOCs, polychlorinated biphenyls (PCBs), VOCs, and metals.

Area of Interest	Name	Description
6	Buried Construction Demolition Material	According to the Phase I, a figure from a 2014 NPDES permit indicated an area described as having buried construction demolition waste. No indication of what type of materials were disposed and the area was noted to be closed (or buried) on or before 1980. Potential contamination is unknown but could include a variety of parameters such as PCBs, VOCs, SVOCs, metals, and asbestos.
7	Waste Oil / Solvent Areas	The 2014 NPDES figure also noted an area used to store waste oil and solvents. Keramida was not able to access this area due to demolition activities. Potential contaminants may include: SVOCs, VOCs, PCBs, and metals.
8	PCB Separator Tank / Hydraulic Equipment	Prior Phase I ESAs identified a PCB separator tank southwest of the generating station, PCBs in the transformer/rectifier sets, and hydraulic powered conveyers. Potential contaminants could include: SVOCs, VOCs, lead, and PCBs.
9	Soil / Pavement Staining	During the prior Phase I site walk, Keramida noted multiple areas of staining on the soil and paved surfaces. These areas will be verified during ATC's site reconnaissance. Potential contaminants likely include: SVOCs and VOCs.
10	Demolition Activities (ongoing)	The ongoing demolition activities being performed on-Site could present the potential for buried drums, ASTs, or PCB and/or asbestos contaminated materials.

In addition, the past use of the Site as a coal-fired electrical generating station represents a *REC*. Potential contaminants other than those listed in the table above could include dioxins and furans.

The objectives of this Phase II was to further evaluate the identified *RECs* by the collection and analysis of soil, groundwater, and wastewater discharge samples at the Site. Additionally, results from public water supply samples were reviewed in order to assess if prior Site activities have impacted the wellfield located to the northwest of the Fly Ash Pond and Type I landfill. Prior to subsurface investigation activities, a ground penetrating radar (GPR) assessment of the Site was performed in order to locate/confirm on-Site utilities and the presence of any potential UST locations.

## 1.2 Phase II Limited Subsurface Investigation Summary

ATC completed Phase II LSI activities at the Site from January 17, 2018 until May 2, 2018. The activities included the following:

- Clearing of utilities for boring locations;
- The advancement of 75 soil borings for the purposes of soil sample collection and subsequent laboratory analysis;
- The installation of 34 temporary monitoring wells for the purposes of groundwater sample collection and subsequent laboratory analysis;
- Collection of three surface water samples from the Main Ash Pond and the leachate and overflow ponds southwest of the landfill and near Outfall 005.

During the initial Phase II LSI sampling activities, not all areas of the Site were accessible for investigation. Specifically, much of the former plant area was actively being razed and demolition activities and construction debris limited ATC's access to these areas. Additionally, some areas north of the Fly Ash Pond in Area 2 were not accessible due to flooding.

ATC completed additional soil and groundwater sampling activities at the Site from June 16, 2018 until June 25, 2018 following plant demolition activities in Area 1 and after floodwaters retreated in Area 2. The additional Phase II LSI activities included the following:

- Clearing of utilities for boring locations
- The advancement of 13 soil borings for the purposes of soil sample collection and subsequent laboratory analysis;
- The installation of eight temporary monitoring wells for the purposes of groundwater sample collection and subsequent laboratory analysis.

## 2 Site Characteristics

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### 2.1 Site Description

The Site is located at 800 AEP Drive, Lawrenceburg, Indiana in an area that is primarily characterized by industrial and commercial uses. For the purposes of this project, the Site was divided into Area 1 and Area 2. Area 1 consists of the former infrastructure used for power generation, including the former power generating station. The former power generating station was undergoing demolition during the initial Phase II LSI activities. Area 1 is located on the east side of Tanner's Creek. Area 2 consists of a fly ash pond, a type 1 landfill, and vacant land. Area 2 is located on the west side of Tanner's Creek. A Site Plan is provided as **Figure 2**.

### 2.2 Hydrogeologic Setting

Runoff at the property is controlled by infiltration into the ground surface and overland flow. Tanner's Creek and the Ohio River drain the study area. Tanner's Creek flows through the approximate center of the property and discharges into the Ohio River. The Ohio River adjoins the property to the southeast.

Regional groundwater flow direction is generally influenced by major hydrogeologic features such as a river or lake. Surface and/or bedrock topography may also influence regional groundwater flow direction. The available hydrogeologic information indicates that local groundwater flow is south. Regional groundwater flow is considered to be southeast toward the Ohio River. Local geologic features may cause local groundwater flow direction to differ from the regional flow direction. Regional groundwater flow direction at the property is interpreted based on a review of the Potentiometric Surface Map of the Unconsolidated Aquifers of Dearborn, Indiana (Cox, 2017).

Groundwater elevations were calculated using well survey data and depth to groundwater measurements. During this assessment, the groundwater elevations ranged from 433.8 feet above mean sea level (amsl) to 483.9 feet amsl. In Area 1, it appears that the groundwater flow direction is to the southeast towards the Ohio River; however, based on the historical data provided by the client, this flow direction is reversed to the historical observed flow direction to the northwest. Conversely, groundwater flow direction in Area 2 appears to be primarily to the northwest which is consistent with the historical flow direction data. Based on this assessment and the provided historical data, it appears that the local groundwater flow direction is likely significantly influenced by the surface water elevation of Tanner's Creek and the Ohio River. The extraction of groundwater from the nearby public water supply wellfield in addition to the decommissioning activities that were ongoing during this assessment, may have influence the flow direction, thus creating a complex flow regime as it relates to the local hydrogeology in the vicinity of the Site.

Soil samples collected from borings advanced at the Site demonstrated variability in soil types and layer depths. Generally, soil samples collected from the borings advanced at the Site indicated a surface layer of coal ash and/or fill material in Area 1, and a surface layer of gravel or topsoil in Area 2. The coal ash/fill material layer in Area 1 ranged in depths of 0.5 feet below ground surface (ft-bgs) to 40 ft-bgs. The coal ash/fill material layer was underlain with clay, sand, silty sand, and/or gravel. The surface layer in Area 2 was typically underlain with a clay layer that extended to approximately 36 to 50 ft-bgs. The clay layer was underlain with a silty sand layer.

## 3 Work Performed

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### 3.1 Drilling Activities

Prior to the start of both sampling events, underground utilities were marked by the Indiana Underground Plant Protection Service. ATC reviewed the location of marked underground utilities and moved soil boring locations as necessary to avoid potentially contacting underground utilities. Additionally, a Site-specific health and safety plan was prepared and reviewed with all field personnel before commencing with the field activities.

Prior to drilling activities, a private utility locate was also conducted to clear boring locations. The soil borings were then advanced and soil samples collected continuously in two foot intervals to the desired depth using a track mounted 8040DT Geoprobe® drill rig equipped with 4-foot long, nominal 2-inch diameter Macro core® samplers. The Macro-core samplers were equipped with new plastic internal liners prior to collection of each sample.

The drilling activities included the advancement of 75 soil borings to a maximum depth of up to approximately 48 feet below ground surface (ft-bgs) or until groundwater was encountered (January 17, 2018 through May 2, 2018). Drilling activities from June 16, 2018 through June 25, 2018 included the advancement of 13 soil borings to a maximum depth of 50 ft-bgs or until groundwater was encountered. Additionally, groundwater samples were collected from 42 of the 88 total soil borings. The soil borings and temporary well locations are illustrated on **Figure 2** and listed in tabular form in **Appendix E**.

### 3.2 Soil Investigation

For both sampling events, the soil samples were collected in plastic liners that were retrieved at the ground surface. When the Geoprobe® sample liners were opened, a field geologist collected a sub-sample from each 2 ft interval for potential laboratory analysis using Terra Core Samplers (US EPA Method 5035A – Indiana Modified) and laboratory-supplied 4 ounce jars. A second sub-sample (field aliquot) was placed into resealable plastic bags to be analyzed in the field using a flame-ionization detector (FID) and a photo-ionization detector (PID), which measures total photo-ionizable vapors (TPVs).

A field geologist classified each soil sample in accordance with the Unified Soil Classification System (USCS), and visually inspected each soil sample in the field for physical evidence of environmental impact such as staining, odors, free product, etc. Soil boring logs documenting the soil classification and field screening results are provided in **Appendix A**.

Two soil samples per boring were retained for laboratory analysis. The samples retained for analysis included the subsurface sample intervals exhibiting the greatest potential for being impaired (i.e., highest TPV, staining, odors, etc.). If no evidence of impact was observed in the subsurface soil, the samples selected for laboratory analysis were taken near the groundwater table. Soil FID and/or PID screening results are included on the boring/well logs.

Soil samples retained for laboratory analysis were analyzed for some or all of the following parameters:

- Fluoride using US EPA SW-846 Method 4500FC<sup>1</sup>,

- Hexavalent Chromium (Cr 6+) using US EPA SW-846 Method 7196<sup>1</sup>,
- Polychlorinated Biphenyls (PCBs) using US EPA SW-846 Method 8082<sup>1,2</sup>,
- Polynuclear Aromatic Hydrocarbons (PAHs) using 8270 SIM<sup>2</sup>,
- Metals: Arsenic, Barium, Boron, Beryllium, Cadmium, Chromium (Cr 6+), Copper, Mercury, Molybdenum, Nickel, Lead, Antimony, Selenium, Thallium, Zinc, Manganese, Cobalt, Lithium, Radium, and Fluoride using US EPA SW-846 Methods 6010B, 7196, and 7470<sup>2</sup>,
- Radium-226 and Radium-228 using US EPA SW-846 Method 901.1<sup>1</sup>,
- RCRA 8 Metals: Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium, and Silver using US EPA SW-846 Methods 6010B and 7470,
- Semi-Volatile Organic Compounds (SVOCs) using US EPA SW-846 Method 8270<sup>1,2</sup>,
- Volatile Organic Compounds (VOCs) using US EPA SW-846 Method 8260<sup>2</sup>,
- Dioxins (CDD) and Furans (CDF) using US EPA SW-846 Method 8280B<sup>1</sup>.

### 3.3 Groundwater/Wastewater Investigation

Groundwater sampling activities were conducted at the Site between April 24, 2018 and May 2, 2018, and June 22, 2018 and June 25, 2018. Prior to sample collection, depth-to-groundwater was measured and recorded. Depth-to-groundwater was measured to range from 5.0 ft-bgs to 48.0 ft-bgs. Based on the groundwater elevations, it appears the groundwater flow direction is variable across the Site. At the time of this investigation, groundwater flow direction was to the southeast towards the Ohio River in Area 1, while groundwater flow direction in Area 2 appeared to be primarily to the northwest. Groundwater elevations are shown in **Figures 8 and 9**.

Groundwater samples were collected from a total of 42 temporary wells using low flow/low stress sampling techniques. For each sample location, a pump was gently lowered to approximately the midpoint of the measured groundwater column and the pump was started at an initial flow rate ranging from 50 to 60 milliliters (mL) per cycle with four cycles per minute. After placing the pump at the desired interval within each monitoring well, a minimum of one purging volume (volume of bladder, flow through cell, and tubing) was removed before stabilization parameters were recorded. The water quality parameters used for determining stability and the stability criteria are provided in the table below. In order to determine stability, three consecutive measurements were within the stabilization criteria presented for each parameter. The groundwater sampling log along with low flow sampling logs are provided in **Appendix B**.

Stabilization Parameter	Stabilization Criteria
pH	+/- 0.1
Oxygen-Reduction Potential (ORP)	+/- 10 mev
Temperature	+/- 3%
Dissolved Oxygen	+/- 10%
Conductivity	+/- 3%

<sup>1</sup> Only analyzed for samples collected from Area 1

<sup>2</sup> Analyzed during both first and second sampling events

In addition to the groundwater samples, ATC attempted to collect samples from the effluent at Outfall 5; however, no discharge was noted during the sampling event. Therefore, ATC collected three grab surface water samples. One surface water sample (SW-1) was collected from the southwest corner of the main ash pond. The subsequent surface water samples (SW-2 and SW-3) were collected near Outfall 005, which is located near the leachate and overflow ponds southwest of the landfill.

For both sampling events, water samples were placed into laboratory supplied sample containers, labeled with a unique identification, placed in a cooler and transported to Pace Analytical laboratory under chain-of-custody controls. Groundwater and surface water samples retained for laboratory analysis were analyzed for some or all of the following parameters:

- Fluoride using US EPA SW-846 Method 4500FC<sup>2</sup>
- Dissolved and/or Total Metals: Arsenic, Barium, Boron, Beryllium, Cadmium, Chromium (Cr 6+), Copper, Mercury, Molybdenum, Nickel, Lead, Antimony, Selenium, Thallium, Zinc, Manganese, Cobalt, Lithium, Radium, and Fluoride using US EPA SW-846 Methods 6010B, 7196, and 7470,
- PAHs using US EPA SW-846 Method 8270 SIM,
- Polychlorinated Biphenyls (PCBs) using US EPA SW-846 Method 8082<sup>3</sup>,
- Radium-226 and Radium-228 using US EPA SW-846 Method 901.1<sup>3</sup>,
- RCRA 8 Metals: Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium, and Silver using US EPA SW-846 Methods 6010B and 7470<sup>3</sup>,
- Semi-Volatile Organic Compounds (SVOCs) using US EPA SW-846 Method 8270<sup>3</sup>, and
- Volatile Organic Compounds (VOCs) using US EPA SW-846 Method 8260.

Additionally, public water supply wells were sampled within the LMS Well and the Aurora Well by a third party and results were provided by the water utility company. Field measurements were collected for all water samples, and recorded during sampling, and included dissolved oxygen, oxygen reduction potential (ORP), pH, specific conductance, turbidity, and temperature.

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<sup>3</sup> Only analyzed for samples collected from Area 1

<sup>4</sup> Analyzed during first and second sampling events

## 4 Findings

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### 4.1 Hydrogeology and Soil Screening Results

Soil samples collected from borings advanced at the Site demonstrated variability in soil types and layer depths. Generally, soil samples collected from the borings advanced at the Site indicated a surface layer of coal ash and/or fill material in Area 1, and a surface layer of gravel or topsoil in Area 2. The coal ash/fill material layer in Area 1 ranged in depths of 0.5 feet below ground surface (ft-bgs) to 40 ft-bgs. The coal ash/fill material layer was underlain with clay, sand, silty sand, or gravel. The surface layer in Area 2 was typically underlain with a clay layer that extended to approximately 36 to 50 ft-bgs. The clay layer was underlain with a loamy sand layer.

The field screening (TPV readings) had results ranging from 0 ppm to 2,450 ppm. The highest TPV reading, 2,450 ppm, was taken from soil boring B-02 (14-15), located in the Gibbco area. No visual staining or free product was observed in any soil samples collected from the Site. The results of the field screening analysis are provided in the boring logs located in **Appendix A**.

### 4.2 Soil Analytical Results

The soil samples were analyzed within the established holding times using U.S. EPA-approved Methods as described in the EPA publication, Test Methods for Evaluation of Solid Wastes, Physical/Chemical Methods (SW-846, 3<sup>rd</sup> Edition, Update III). The Method Detection Limits (MDLs) and Estimated Quantification Limits (EQLs) were low enough to determine if the reported contaminants of concern (COC) concentrations, if any, were in excess of the Indiana Department of Environmental Management (IDEM) Remediation Closure Guide (RCG) Screening Levels.

The soil analytical results were compared to the following RCG screening levels (SLs-updated March 2018):

- Direct Contact – residential (IDEM RCG RSL),
- Direct Contact – commercial/industrial (IDEM RCG CISL),
- Direct Contact – excavation (IDEM RCG ESL), and
- Groundwater Soil Migration to Groundwater – residential (IDEM RCG MTGSL).

Laboratory soil sample analysis indicated that multiple COCs were detected above the laboratory reporting limits. A number of COCs were also detected at concentrations exceeding the referenced IDEM RCG SLs, and are summarized below. The results of the soil laboratory analysis are depicted on **Figures 4 and 5** and provided in **Tables 1A – 1I**. A copy of the laboratory certificate of analysis is provided in **Appendix C**.

#### VOCs

Methylene chloride was detected in a soil samples collected from B-14 (28-30) and B-33 (44-45) at concentrations exceeding IDEM RCG MTGSL. None of the other soil samples collected from the Site exhibited VOCs concentrations exceeding applicable IDEM RCG SLs.



### SVOCs/PAHs

Several SVOCs/PAHs were detected at concentrations exceeding IDEM RCG MTGSL. Benzo(a)anthracene and Benzo(a)pyrene were detected in soil samples B-4 (18-20) and B-74 (0-2) at concentrations exceeding the IDEM RCG MTGSL. 1-Methylnaphthalene was detected in soil sample B-24 (0-2) at a concentration exceeding IDEM RCG MTGSL. 1-Methylnaphthalene and 2-Methylnaphthalene were detected in soil sample B-82 (6-8) at concentrations exceeding IDEM RCG MTGSLs. Naphthalene was detected in soil samples B-63 (0-2), B-64 (40-42), B-65 (0-2), B-69 (18-20), B-74 (0-2), B-80 (0-2), B-82 (0-2), B-83 (0-2), and B-87 (5-6) at concentrations exceeding IDEM RCG MTGSL. None of the other soil samples collected from the Site exhibited SVOC/PAH concentrations exceeding applicable IDEM RCG SLs.

### PCBs

PCB-1242 (Aroclor 1242) was detected in soil samples B-71 (0-2), B-75 (0-2), B-79 (0-2), B-81 (0-2), B-82 (0-2), and B-86 (0-2) at concentrations exceeding IDEM RCG MTGSL. None of the other soil samples collected from the Site contained PCBs at concentrations exceeding applicable IDEM RCG SLs.

### Metals

Arsenic, cobalt, selenium, and thallium were detected in soil samples at concentrations exceeding IDEM RCG SLs. Arsenic was detected at concentrations exceeding IDEM RCG MTGSL or IDEM RCG RSL in all samples **except** B-2 (0-2), B-3 (0-2), B-4 (0-2), B-6 (0-2), B-7 (0-2), B-8 (0-2), B-9 (0-2), B-10 (0-2), B-10 (18-20), B-12 (20-22), B-17 (0-2), B-17 (32-43), B-24 (0-2), B-36 (0-2), B-38 (0-2), B-39 (28-30), B-40 (32-34), B-47 (26-28), B-48 (22-24), B-50 (22-24), B-52 (30-32), B-53 (24-26), B-56 (0-2), B-59 (0-2), B-62 (14-16), B-67 (0-2), B-70 (0-2), B-71 (0-2), B-75 (0-2), B-81 (16-18), B-82 (6-8), B-84 (26-28), B-85 (20-22), and B-87 (5-6). Arsenic was detected at concentrations exceeding IDEM RCG CISL for soil samples B-12 (0-2), B-13 (0-2), B-14 (0-2), B-15 (0-2), B-18 (0-2), B-20 (0-2), B-22 (0-2), B-27 (0-2), B-30 (0-2), B-30 (24-25), B-32 (0-2), B-33 (0-2), B-33 (44-45), B-34 (0-2), B-37 (38-40), B-51 (0-2), B-79 (0-2), and B-86 (0-2).

Cobalt was detected at concentrations exceeding IDEM RCG MTGSL for soil samples B-1 (0-2), B-1 (14-16), B-2 (0-2), B-2 (14-15), B-3 (0-2), B-3 (24-25), B-4 (0-2), B-4 (18-20), B-5 (0-2), B-5 (16-18), B-6 (18-20), B-7 (0-2), B-24 (0-2), B-24 (16-18), B-25 (0-2), B-25 (10-12), B-26 (0-2), B-26 (24-26), B-27 (0-2), B-27 (48-50), B-28 (0-2), B-28 (28-30), B-29 (0-2), B-29 (14-16), B-30 (0-2), B-30 (24-25), B-31 (0-2), B-31 (38-40), B-32 (0-2), B-32 (38-40), B-33 (0-2), B-33 (44-45), B-34 (0-2), B-36 (0-2), B-36 (12-14), B-37 (38-40), and B-38 (38-40).

Selenium was detected at concentrations exceeding IDEM RCG MTGSL for soil samples B-18 (26-28), B-28 (0-2), B-30 (0-2), B-33 (0-2), B-34 (0-2), B-74 (0-2), B-75 (0-2), B-79 (0-2), B-79 (6-8), B-80 (0-2), B-81 (0-2), B-82 (0-2), and B-83 (0-2).

Thallium was detected at concentrations exceeding IDEM RCG MTGSL or IDEM RCG RSL for soil samples B-2 (0-2), B-3 (0-2), B-4 (0-2), B-5 (0-2), B-6 (0-2), B-7 (0-2), B-7 (20-22), B-17 (0-2), B-24 (0-2), B-30 (0-2), B-34 (0-2), B-37 (0-2), and B-38 (0-2).

### Radium

Soil samples from Area 1 were analyzed for Radium-226 and Radium-228. The US EPA has established a clean-up goal for Radium as five picocuries per gram (pCi/g). Analytical results indicated

the presence of Radium-226 and Radium-228; however, the concentrations were below the established US EPA clean-up goal for soil.

No other analytes were detected in soil samples at concentrations exceeding applicable IDEM RCG SLs.

### 4.3 Groundwater Analytical Results

The groundwater samples were analyzed within the established holding times using U.S. EPA-approved Methods as described in the EPA publication, Test Methods for Evaluation of Solid Wastes, Physical/Chemical Methods (SW-846, 3rd Edition, Update III). The MDLs and EQLs were low enough to determine if the reported COC concentrations, if any, are in excess of the IDEM's RCG Screening Levels. The groundwater analytical results were compared to the following IDEM RCG screening levels:

- Groundwater Tap – residential (IDEM RCG TRSL),
- Vapor Exposure – groundwater residential (IDEM RCG VERSL), and
- Vapor Exposure – groundwater commercial/industrial (IDEM RCG VECISL).

Several COCs were reported above their respective IDEM RCG TRSLs and include arsenic, barium, boron, chromium, cadmium, lead, manganese, lithium, selenium, and molybdenum. Arsenic was detected at concentrations exceeding IDEM RCG TRSL in groundwater samples B-11, B-13, B-14, B-15, B-16, B-19, B-21, B-27, B-36, B-38, B-80, DUP, TMW-63 (total arsenic), TMW-66 (total arsenic), TMW-71 (dissolved arsenic), TMW-72 (total arsenic), and TMW-74 (total and dissolved arsenic). Barium was detected at concentrations exceeding IDEM RCG TRSL in groundwater sample TMW-74 (total barium). Boron was detected at concentrations exceeding IDEM RCG TRSL in groundwater samples B-27 and B-36. Chromium was detected at a concentration exceeding IDEM RCG TRSL in groundwater sample B-80. Cadmium was detected at a concentration exceeding IDEM RCG TRSL in groundwater sample TMW-74 (total cadmium). Lead was detected at concentrations exceeding IDEM RCG TRSL in groundwater samples B-21 (total lead), TMW-66 (total lead), TMW-72 (total lead), TMW-74 (total lead), B-80, and B-88. Total and dissolved Manganese was detected at concentrations exceeding IDEM RCG TRSL in groundwater sample B-77. Lithium was detected at concentrations exceeding IDEM RCG TRSL in groundwater samples B-27, TMW-72 (total lithium), and TMW-74 (total lithium). Molybdenum was detected at concentrations exceeding IDEM RCG TRSL in groundwater samples B-27, B-36, and B-38. Selenium was detected at concentrations exceeding IDEM RCG TRSL in groundwater samples B-79 and B-80.

1,1-Dichloroethane and 1,1-Dichloroethene were detected at concentrations exceeding IDEM RCG TRSLs in groundwater sample TMW-71.

Radium was detected in groundwater samples collected from Area 1; however, analytical results were below the IDEM Maximum Contaminant Level (MCL) for drinking water (3 pCi/L for Radium-226, 5 pCi/L for combined Radium-226 and Radium-228).

Additionally, several other COCs were detected above their laboratory reporting limits, but below their respective RCG SLs. The results of the groundwater laboratory analysis are depicted on **Figures 6 and 7**, and provided in **Tables 2A – 2F**. A copy of the laboratory certificate of analysis is provided in **Appendix C**.

Three surface water samples were also collected and analyzed for metals and PCBs. Analytical results for the main ash pond sample (SW-1) indicated concentrations of arsenic and molybdenum exceeding the IDEM RCG TRSL. The sample collected from the overflow pond near the landfill did not exhibit COC concentrations exceeding the IDEM RCG Screening Levels. The analytical results for the surface water sample collected from the leachate pond (SW-3) indicated concentrations of boron and molybdenum exceeding the IDEM RCG TRSL. The results of the surface water analysis are provided in **Table 2B**.

#### **4.4 Public Water Supply Results**

Raw or untreated public water supply well samples were collected by the representative utility companies and were analyzed for metals and VOCs. There were detections of barium, boron, calcium, chloride, fluoride and sulfate in both samples at concentrations above the laboratory reporting limits; however, the concentrations were either below applicable IDEM RCG SLs or do not have established IDEM RCG SLs (calcium, chloride, and sulfate). The results of the public water supply wells laboratory analysis are provided in **Table 2E** and the analytical results are provided as **Appendix D**. Additionally, treated public water supply data is available for public review at the following website: <https://myweb.in.gov/IDEM/DWW/>. The water system ID for Lawrenceburg Municipal Utilities is IN5215006 and IN5215001 for Aurora Utilities.

## 5 Conclusions

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Between January 17, 2018 and May 2, 2018, ATC completed Phase II LSI activities to evaluate current Site conditions. The Phase II activities consisted of advancing 74 soil borings and the installation of 34 temporary monitoring wells with the collection and laboratory analysis of soil and groundwater samples. Between June 16 and June 25, 2018, ATC completed additional sampling activities to evaluate current Site conditions, which included advancing 13 soil borings and the installation of eight temporary monitoring wells.

Soil samples collected from borings advanced at the Site demonstrated variability in soil types and layer depths. Generally, soil samples collected from the borings advanced at the Site indicated a surface layer of coal ash and/or fill material in Area 1, and a surface layer of gravel or topsoil in Area 2. The coal ash/fill material layer in Area 1 ranged in depths of 0.5 feet below ground surface (ft-bgs) to 40 ft-bgs. The coal ash/fill material layer was underlain with clay, sand, silty sand, or gravel. The surface layer in Area 2 was typically underlain with a clay layer that extended to approximately 36 to 50 ft-bgs. The clay layer was underlain with a loamy sand layer.

The field screening (TPV readings) had results ranging from 0.0 ppm to 2,450.0 ppm. The highest TPV reading was from B-02 (14-15). No visual staining or free product was observed in any soil samples collected from the Site.

Laboratory soil sample analysis indicated that multiple COCs were detected above the laboratory reporting limits. VOCs, SVOCs/PAHs, PCBs and metals were detected in soil samples at concentrations that exceeded IDEM RCG SLs. Methylene chloride was detected in two soil samples at concentrations exceeding IDEM RCG MTGSL. Several SVOCs/PAHs were detected at concentrations exceeding applicable IDEM RCG MTGSL and included benzo(a)anthracene, benzo(a)pyrene, 1-Methylnaphthalene, and naphthalene. PCB-1242 (Aroclor 1242) was detected in soil samples at concentrations exceeding IDEM RCG MTGSL. Arsenic, cobalt, selenium, and thallium were detected at concentrations exceeding IDEM RCG MTGSL. Arsenic and thallium were detected at concentrations exceeding IDEM RCG RSL. Arsenic was also detected at concentrations exceeding IDEM RCG CISL in 18 soil samples. All but three of the 18 soil samples with arsenic concentrations exceeding IDEM RCG CISL were collected from the 0-2 ft-bgs interval. The other three samples were collected from the 24-25 ft-bgs, 44-45 ft-bgs, and 38-40 ft-bgs intervals. The soil samples exceeding IDEM RCG CISL for arsenic are listed in **Table 11**. Radium was detected in soil samples, but at concentrations below the established clean-up level for soil.

Groundwater analytical results indicated metals concentrations exceeding IDEM RCG TRSLs. The metals included arsenic, barium, boron, chromium, cadmium, lead, manganese, lithium, selenium, and molybdenum. In addition, 1,1-Dichloroethane and 1,1-Dichloroethene were detected at concentrations exceeding IDEM RCG TRSLs. Radium was detected in groundwater samples, but at concentrations below the US EPA MCL. In addition to groundwater samples collected from temporary wells, laboratory analysis for raw water samples collected from two public water supply wells were provided that were analyzed for metals and VOCs. There were detections of barium, boron, calcium, chloride, fluoride and sulfate in both samples at concentrations above the laboratory reporting limits; however, the concentrations were below applicable IDEM RCG SLs or no established IDEM RCG SLs exist (i.e. calcium, chloride, and sulfate).

Three surface water samples were collected from the main ash pond (SW-1), the landfill overflow pond (SW-2), and the landfill leachate pond (SW-3). Analytical results for surface water sample SW-1 indicated concentrations of arsenic and molybdenum at concentrations exceeding the IDEM RCG MTGSL. The analytical results for the surface water sample collected from the leachate pond (SW-3) indicated concentrations of boron and molybdenum exceeding the IDEM RCG MTGSL.

During this assessment, the groundwater elevations ranged from 433.8 feet above mean sea level (amsl) to 483.9 feet amsl. In Area 1, it appears that the groundwater flow direction is to the southeast towards the Ohio River; however, based on the historical data provided by the client, this flow direction is reversed to the historical observed flow direction to the northwest. Conversely, groundwater flow direction in Area 2 appears to be primarily to the northwest which is consistent with the historical flow direction data.

## 6 Qualifications

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The work performed in conjunction with this assessment, and the data developed, are intended as a description of available information at the dates and locations given. This report does not warrant against future operations or conditions, nor does it warrant against operations or conditions present of a type, or at a location not investigated, nor against future operations or conditions.

The present study included the collection of 174 soil and 42 groundwater samples collected from 88 soil borings advanced at the Site. Additionally three surface water samples were collected from the Main Ash Pond and the landfill leachate and overflow ponds. The conclusions and opinions drawn from this investigation are considered reliable; however, there may exist localized variations in subsurface conditions that have not been completely defined at this time.

# Tables









**Table 1A**  
**Soil Analytical Summary (VOCs)**  
Phase II Limited Subsurface Investigation  
Former AEP Tanner's Creek Generating Station  
800 AEP Drive, Larenceburg, Indiana  
ATC Project No. 170EM00522

Sample ID	Collected Date	Units	Acetone	n-Butylbenzene	sec-Butylbenzene	1,1-Dichloroethane	Ethylbenzene	Isopropylbenzene (Cumene)	p-Isopropyltoluene	Methylene Chloride	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	n-Propylbenzene	Styrene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylene (Total)	
<b>Residential</b>			<b>85000</b>	<b>110</b>	<b>150</b>	<b>50</b>	<b>81</b>	<b>270</b>	<b>NE</b>	<b>490</b>	<b>250</b>	<b>340</b>	<b>53</b>	<b>260</b>	<b>870</b>	<b>820</b>	<b>640</b>	<b>5.7</b>	<b>1200</b>	<b>81</b>	<b>180</b>	<b>260</b>	
<b>Com/Ind</b>			<b>100000</b>	<b>110</b>	<b>150</b>	<b>160</b>	<b>250</b>	<b>270</b>	<b>NE</b>	<b>3200</b>	<b>390</b>	<b>3000</b>	<b>170</b>	<b>260</b>	<b>870</b>	<b>820</b>	<b>640</b>	<b>19</b>	<b>1200</b>	<b>220</b>	<b>180</b>	<b>260</b>	
<b>Excavation</b>			<b>100000</b>	<b>110</b>	<b>150</b>	<b>1700</b>	<b>480</b>	<b>270</b>	<b>NE</b>	<b>3300</b>	<b>390</b>	<b>6800</b>	<b>3100</b>	<b>260</b>	<b>870</b>	<b>820</b>	<b>640</b>	<b>95</b>	<b>1200</b>	<b>220</b>	<b>180</b>	<b>260</b>	
<b>Soil MTG Residential</b>			<b>57</b>	<b>64</b>	<b>120</b>	<b>0.16</b>	<b>16</b>	<b>15</b>	<b>NE</b>	<b>0.025</b>	<b>1.2</b>	<b>3.7</b>	<b>0.11</b>	<b>25</b>	<b>2.2</b>	<b>14</b>	<b>1.4</b>	<b>0.036</b>	<b>66</b>	<b>0.44</b>	<b>3.4</b>	<b>200</b>	
B-72 (0-2)	4/24/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-72 (46-48)	4/24/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-73 (0-2)	4/24/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-73 (34-36)	4/24/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-74 (0-2)	4/25/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0215	ND	ND	ND	ND
B-74 (34-36)	4/25/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-75 (0-2)	4/25/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0230	ND	ND	ND	ND
B-75 (10-12)	4/25/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DUP-1	4/18/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DUP-2	4/19/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DUP-3	4/23/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	<b>0.0546</b>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DUP-4	4/24/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TB-1	4/17/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TB-2	4/18/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TB-3	4/19/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TB-4	4/20/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TB-5	4/23/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TB-6	4/24/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Note:  
IDEM RCG = Indiana Department of Environmental Management Remediation Closure Guide (IDEM RCG) (Screening Levels updated March 2018)  
Volatile Organic Compounds (VOCs) were analyzed using EPA SW-846 Method 8260B  
Constituents not detected above laboratory detection limits are not listed in the table.  
ND = Not Detected  
NA = Not Analyzed for that constituent  
**BOLD** = results above IDEM RCG Residential Screening Levels  
**BOLD/ITALICS** = results above IDEM RCG Commercial / Industrial Direct Exposure Level  
**BOLD/SHADED** = results above IDEM RCG Excavation Worker Direct Exposure Level





**Table 1B**  
**Soil Analytical Summary (SVOCs)**  
Phase II Limited Subsurface Investigation  
Former AEP Tanner's Creek Generating Station  
800 AEP Drive, Larenceburg, Indiana  
ATC Project No. 170EM00522

Sample ID	Collected Date	Units	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	bis(2-Ethylhexyl)phthalate	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene	
<b>Residential</b>			<b>5000</b>	<b>NE</b>	<b>25000</b>	<b>15</b>	<b>1.5</b>	<b>15</b>	<b>NE</b>	<b>150</b>	<b>1500</b>	<b>1.5</b>	<b>550</b>	<b>3400</b>	<b>3400</b>	<b>15</b>	<b>250</b>	<b>340</b>	<b>53</b>	<b>NE</b>	<b>2500</b>	
<b>Com/Ind</b>			<b>45000</b>	<b>NE</b>	<b>100000</b>	<b>210</b>	<b>21</b>	<b>210</b>	<b>NE</b>	<b>2100</b>	<b>21000</b>	<b>21</b>	<b>1600</b>	<b>30000</b>	<b>30000</b>	<b>210</b>	<b>390</b>	<b>3000</b>	<b>170</b>	<b>NE</b>	<b>23000</b>	
<b>Excavation</b>			<b>100000</b>	<b>NE</b>	<b>100000</b>	<b>12000</b>	<b>500</b>	<b>12000</b>	<b>NE</b>	<b>100000</b>	<b>100000</b>	<b>1200</b>	<b>34000</b>	<b>68000</b>	<b>68000</b>	<b>12000</b>	<b>390</b>	<b>6800</b>	<b>3100</b>	<b>NE</b>	<b>51000</b>	
<b>Soil MTG Residential</b>			<b>110</b>	<b>NE</b>	<b>1200</b>	<b>2.1</b>	<b>4.7</b>	<b>60</b>	<b>NE</b>	<b>590</b>	<b>1800</b>	<b>19</b>	<b>29</b>	<b>1800</b>	<b>110</b>	<b>200</b>	<b>1.2</b>	<b>3.7</b>	<b>0.11</b>	<b>NE</b>	<b>260</b>	
B-29 (0-2)	2/6/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
B-29 (14-16)	2/6/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-30 (0-2)	2/6/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.03	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-30 (24-25)	2/6/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-31 (0-2)	2/5/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-31 (38-40)	2/5/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-32 (0-2)	2/5/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.440	ND	ND	ND	ND	ND	ND	ND	ND
B-32 (38-40)	2/5/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-33 (0-2)	2/5/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-33 (44-45)	2/5/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-34 (0-2)	2/6/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-34 (36-38)	2/6/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-36 (0-2)	2/6/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-36 (12-14)	2/6/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-37 (0-2)	2/6/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-37 (38-40)	2/6/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-38 (0-2)	2/6/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-38 (38-40)	2/6/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dup-1	2/1/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DUP-2	2/2/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DUP-3	2/2/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dup-4	2/6/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

Samples were analyzed using US EPA SW-846 Methods 8270 and 8270SIM

Constituents not detected above laboratory reporting limits were not included in this table.

IDEM RCG = Indiana Department of Environmental Management Remediation Closure Guide (IDEM RCG) (Screening Levels updated March 2018)

ND = Not detected

**BOLD** = results above IDEM RCG Residential Direct Contact and/or Migration to Groundwater Screening Level(s)

**BOLD/ITALICS** = results above IDEM RCG Commercial/Industrial Direct Contact Screening Level

**BOLD/SHADED** = results above IDEM RCG Excavation Direct Contact Screening Level



**Table 1C**  
**Soil Analytical Summary (Metals)**  
Phase II Limited Subsurface Investigation  
Former AEP Tanner's Creek Generating Station  
800 AEP Drive, Larenceburg, Indiana  
ATC Project No. 170EM00522

Sample ID	Collected Date	Units	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	Lead	Lithium	Manganese	Molybdenum	Nickel	Selenium	Thallium	Zinc
<b>Residential</b>			<b>9.5</b>	<b>21000</b>	<b>220</b>	<b>22000</b>	<b>99</b>	<b>NE</b>	<b>32</b>	<b>4300</b>	<b>400</b>	<b>220</b>	<b>NE</b>	<b>550</b>	<b>2100</b>	<b>550</b>	<b>1.1</b>	<b>32000</b>
<b>Com/Ind</b>			<b>30</b>	<b>100000</b>	<b>2300</b>	<b>100000</b>	<b>980</b>	<b>NE</b>	<b>350</b>	<b>47000</b>	<b>800</b>	<b>2300</b>	<b>NE</b>	<b>5800</b>	<b>22000</b>	<b>5800</b>	<b>12</b>	<b>100000</b>
<b>Excavation</b>			<b>920</b>	<b>100000</b>	<b>3800</b>	<b>100000</b>	<b>1900</b>	<b>NE</b>	<b>590</b>	<b>79000</b>	<b>1000</b>	<b>3900</b>	<b>NE</b>	<b>9800</b>	<b>38000</b>	<b>9800</b>	<b>20</b>	<b>100000</b>
<b>Soil MTG Residential</b>			<b>5.9</b>	<b>1700</b>	<b>63</b>	<b>260</b>	<b>NE</b>	<b>1000000</b>	<b>5.4</b>	<b>920</b>	<b>270</b>	<b>240</b>	<b>NE</b>	<b>41</b>	<b>510</b>	<b>5.3</b>	<b>2.9</b>	<b>7500</b>
B-1 (0-2)	2/2/2018	mg/kg	9.6	155	1.2	ND	ND	21.4	15.9	21.3	13.8	21.5	787	ND	26.1	ND	ND	76.1
B-1 (14-16)	2/2/2018	mg/kg	8.2	126	1.3	ND	ND	16.2	10.9	22.6	21.8	16.7	548	ND	20.2	ND	ND	68.6
B-2 (0-2)	2/2/2018	mg/kg	4.2	236	3.8	54.0	ND	47.9	10.8	14.3	2.5	38.0	150	4.0	28.3	ND	4.3	19.8
B-2 (14-15)	2/2/2018	mg/kg	7.4	134	0.98	ND	ND	18.1	13.6	18.4	13.2	18.1	648	ND	23.4	ND	ND	72.4
B-3 (0-2)	1/17/2018	mg/kg	2.7	247	1.5	23.7	ND	23.1	5.6	8.1	1.4	18.0	52.2	ND	13.5	ND	2.3	7.6
B-3 (24-25)	2/2/2018	mg/kg	8.9	138	0.97	ND	ND	19.9	13.2	20.9	13.1	19.0	778	ND	24.8	ND	ND	70.8
B-4 (0-2)	2/2/2018	mg/kg	4.7	266	5.1	62.6	ND	72.7	14.9	23.1	3.5	45.1	199	4.7	44.1	ND	4.6	25.4
B-4 (18-20)	2/5/2018	mg/kg	9.6	119	0.88	ND	ND	22.0	11.4	24.1	16.5	20.6	739	ND	23.6	ND	ND	76.5
B-5 (0-2)	2/2/2018	mg/kg	9.0	1120	4.0	73.7	ND	61.9	14.8	18.1	5.9	51.7	125	1.5	31.1	ND	6.6	16.5
B-5 (16-18)	2/2/2018	mg/kg	11.8	156	1.2	8.3	1.0	21.8	14.2	36.5	58.2	18.9	775	2.0	26.9	ND	ND	138
B-6 (0-2)	2/2/2018	mg/kg	ND	229	1.1	23.3	ND	21.8	4.8	4.2	ND	16.6	52.0	1.4	10.7	ND	3.2	5.0
B-6 (18-20)	2/2/2018	mg/kg	8.4	146	1.1	ND	ND	19.9	14.6	20.2	14.2	20.4	692	ND	25.4	ND	ND	74.6
B-7 (0-2)	2/1/2018	mg/kg	1.1	142	2.0	36.5	ND	27.4	6.7	5.9	1.5	19.4	114	3.5	27.1	ND	4.0	19.0
B-7 (20-22)	2/1/2018	mg/kg	ND	122	1.0	20.2	ND	14.7	4.1	3.4	ND	14.2	59.2	1.6	13.8	ND	2.6	6.5
B-8 (0-2)	2/2/2018	mg/kg	5.0	47.5	NA*	NA*	ND	24.9	NA*	NA*	8.6	NA*	NA*	NA*	NA*	ND	NA*	NA*
B-8 (8-10)	2/2/2018	mg/kg	10.1	135	NA*	NA*	ND	19.4	NA*	NA*	21.1	NA*	NA*	NA*	NA*	ND	NA*	NA*
B-9 (0-2)	2/1/2018	mg/kg	ND	151	NA*	NA*	ND	21.0	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	NA*	NA*
B-9 (30-32)	2/1/2018	mg/kg	6.4	74.2	NA*	NA*	ND	15.1	NA*	NA*	10.9	NA*	NA*	NA*	NA*	ND	NA*	NA*
B-10 (0-2)	2/1/2018	mg/kg	1.7	162	NA*	NA*	ND	17.6	NA*	NA*	1.2	NA*	NA*	NA*	NA*	ND	NA*	NA*
B-10 (18-20)	2/1/2018	mg/kg	4.8	109	NA*	NA*	ND	6.3	NA*	NA*	1.0	NA*	NA*	NA*	NA*	ND	NA*	NA*
B-11 (0-2)	2/1/2018	mg/kg	24.0	149	NA*	NA*	0.64	27.4	NA*	NA*	6.8	NA*	NA*	NA*	NA*	1.8	NA*	NA*
B-11 (32-34)	2/1/2018	mg/kg	22.6	179	NA*	NA*	ND	29.0	NA*	NA*	6.7	NA*	NA*	NA*	NA*	1.4	NA*	NA*
B-12 (0-2)	2/1/2018	mg/kg	31.8	690	NA*	NA*	ND	20.4	NA*	NA*	8.2	NA*	NA*	NA*	NA*	1.7	NA*	NA*
B-12 (20-22)	2/1/2018	mg/kg	2.4	89.5	NA*	NA*	ND	5.0	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	NA*	NA*
B-13 (0-2)	2/1/2018	mg/kg	35.8	160	NA*	NA*	0.91	35.2	NA*	NA*	9.8	NA*	NA*	NA*	NA*	1.2	NA*	NA*
B-13 (28-30)	2/1/2018	mg/kg	17.8	172	NA*	NA*	ND	27.8	NA*	NA*	7.5	NA*	NA*	NA*	NA*	ND	NA*	NA*
B-14 (0-2)	1/29/2018	mg/kg	62.5	194	NA*	NA*	1.2	46.9	NA*	NA*	10.8	NA*	NA*	NA*	NA*	1.7	NA*	NA*
B-14 (28-30)	1/29/2018	mg/kg	18.8	258	NA*	NA*	ND	21.2	NA*	NA*	4.7	NA*	NA*	NA*	NA*	ND	NA*	NA*
B-15 (0-2)	1/29/2018	mg/kg	34.5	179	NA*	NA*	0.85	34.5	NA*	NA*	9.0	NA*	NA*	NA*	NA*	1.5	NA*	NA*
B-15 (32-34)	1/29/2018	mg/kg	14.6	261	NA*	NA*	ND	20.4	NA*	NA*	3.5	NA*	NA*	NA*	NA*	1.5	NA*	NA*
B-16 (0-2)	1/29/2018	mg/kg	14.3	167	NA*	NA*	ND	25.5	NA*	NA*	4.3	NA*	NA*	NA*	NA*	ND	NA*	NA*
B-16 (34-36)	1/29/2018	mg/kg	8.7	120	NA*	NA*	ND	15.2	NA*	NA*	10.2	NA*	NA*	NA*	NA*	ND	NA*	NA*
B-17 (0-2)	1/31/2018	mg/kg	2.2	118	ND	ND	ND	5.4	1.8	5.4	ND	ND	23.5	ND	5.5	ND	1.4	4.4
B-17 (32-34)	1/31/2018	mg/kg	2.4	166	ND	ND	ND	6.5	ND	15.2	ND	ND	18.1	ND	5.6	ND	ND	4.0
B-18 (0-2)	1/30/2018	mg/kg	38.0	185	NA*	NA*	1.0	42.5	NA*	NA*	11.7	NA*	NA*	NA*	NA*	5.6	NA*	NA*
B-18 (26-28)	1/30/2018	mg/kg	25.5	107	NA*	NA*	1.7	29.1	NA*	NA*	6.9	NA*	NA*	NA*	NA*	9.6	NA*	NA*
B-19 (0-2)	1/30/2018	mg/kg	9.4	151	NA*	NA*	ND	15.3	NA*	NA*	5.7	NA*	NA*	NA*	NA*	1.9	NA*	NA*
B-19 (30-32)	1/30/2018	mg/kg	8.5	131	NA*	NA*	ND	14.7	NA*	NA*	4.9	NA*	NA*	NA*	NA*	ND	NA*	NA*
B-20 (0-2)	1/30/2018	mg/kg	37.2	256	NA*	NA*	1.0	43.7	NA*	NA*	10.4	NA*	NA*	NA*	NA*	3.7	NA*	NA*
B-20 (28-30)	1/30/2018	mg/kg	18.1	258	NA*	NA*	ND	21.2	NA*	NA*	7.2	NA*	NA*	NA*	NA*	ND	NA*	NA*
B-21 (0-2)	1/30/2018	mg/kg	20.0	307	NA*	NA*	ND	30.3	NA*	NA*	4.7	NA*	NA*	NA*	NA*	ND	NA*	NA*
B-21 (28-30)	1/30/2018	mg/kg	11.4	108	NA*	NA*	0.82	15.8	NA*	NA*	3.3	NA*	NA*	NA*	NA*	3.4	NA*	NA*
B-22 (0-2)	1/30/2018	mg/kg	38.2	181	NA*	NA*	1.1	41.7	NA*	NA*	11.5	NA*	NA*	NA*	NA*	5.0	NA*	NA*
B-22 (24-26)	1/30/2018	mg/kg	20.1	781	NA*	NA*	ND	27.8	NA*	NA*	10.1	NA*	NA*	NA*	NA*	1.9	NA*	NA*
B-23 (0-2)	1/31/2018	mg/kg	5.9	88.5	NA*	NA*	ND	11.6	NA*	NA*	7.8	NA*	NA*	NA*	NA*	ND	NA*	NA*

**Table 1C**  
**Soil Analytical Summary (Metals)**  
Phase II Limited Subsurface Investigation  
Former AEP Tanner's Creek Generating Station  
800 AEP Drive, Larenceburg, Indiana  
ATC Project No. 170EM00522

Sample ID	Collected Date	Units	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	Lead	Lithium	Manganese	Molybdenum	Nickel	Selenium	Thallium	Zinc
<b>Residential</b>			<b>9.5</b>	<b>21000</b>	<b>220</b>	<b>22000</b>	<b>99</b>	<b>NE</b>	<b>32</b>	<b>4300</b>	<b>400</b>	<b>220</b>	<b>NE</b>	<b>550</b>	<b>2100</b>	<b>550</b>	<b>1.1</b>	<b>32000</b>
<b>Com/Ind</b>			<b>30</b>	<b>100000</b>	<b>2300</b>	<b>100000</b>	<b>980</b>	<b>NE</b>	<b>350</b>	<b>47000</b>	<b>800</b>	<b>2300</b>	<b>NE</b>	<b>5800</b>	<b>22000</b>	<b>5800</b>	<b>12</b>	<b>100000</b>
<b>Excavation</b>			<b>920</b>	<b>100000</b>	<b>3800</b>	<b>100000</b>	<b>1900</b>	<b>NE</b>	<b>590</b>	<b>79000</b>	<b>1000</b>	<b>3900</b>	<b>NE</b>	<b>9800</b>	<b>38000</b>	<b>9800</b>	<b>20</b>	<b>100000</b>
<b>Soil MTG Residential</b>			<b>5.9</b>	<b>1700</b>	<b>63</b>	<b>260</b>	<b>NE</b>	<b>1000000</b>	<b>5.4</b>	<b>920</b>	<b>270</b>	<b>240</b>	<b>NE</b>	<b>41</b>	<b>510</b>	<b>5.3</b>	<b>2.9</b>	<b>7500</b>
B-23 (10-12)	1/31/2018	mg/kg	8.1	151	NA*	NA*	ND	18.4	NA*	NA*	11.7	NA*	NA*	NA*	NA*	ND	NA*	NA*
B-24 (0-2)	1/31/2018	mg/kg	5.4	80.8	0.86	6.7	ND	9.7	5.6	13.5	8.1	7.8	213	ND	11.3	1.8	1.7	28.7
B-24 (16-18)	1/31/2018	mg/kg	9.2	161	1.0	ND	ND	18.5	12.7	18.1	12.4	20.8	507	ND	23.7	ND	ND	67.8
B-25 (0-2)	1/31/2018	mg/kg	8.8	151	1.1	ND	ND	18.4	13.0	17.4	11.9	20.6	761	ND	24.0	ND	ND	69.7
B-25 (10-12)	1/31/2018	mg/kg	9.5	153	1.1	ND	ND	18.7	12.6	17.9	12.8	20.9	703	ND	23.9	ND	ND	71.2
B-26 (0-2)	1/31/2018	mg/kg	16.3	56.0	ND	6.9	ND	8.2	8.5	10.8	6.2	7.6	661	ND	14.8	ND	ND	27.4
B-26 (24-26)	1/31/2018	mg/kg	12.9	162	1.2	6.1	ND	20.6	13.6	19.9	12.9	23.2	435	ND	25.8	ND	ND	75.8
B-27 (0-2)	2/5/2018	mg/kg	60.6	246	2.9	42.6	ND	43.3	8.3	29.7	19.8	22.7	124	4.0	26.6	5.7	ND	53.8
B-27 (48-50)	2/5/2018	mg/kg	23.6	357	2.3	49.4	ND	37.9	10.9	29.1	7.8	10.1	193	2.6	26.8	1.7	ND	30.1
B-28 (0-2)	2/6/2018	mg/kg	10.3	109	2.8	19.8	ND	17.9	9.7	31.9	13.0	13.5	82.4	5.0	19.4	25.8	ND	23.4
B-28 (28-30)	2/6/2018	mg/kg	7.3	102	0.80	ND	ND	14.5	10.3	13.8	9.7	15.1	641	4.7	18.6	ND	ND	52.9
B-29 (0-2)	2/6/2018	mg/kg	8.8	175	1.2	ND	ND	20.2	13.4	19.6	13.6	21.5	1640	ND	25.8	ND	ND	75.6
B-29 (14-16)	2/6/2018	mg/kg	8.3	122	0.90	ND	ND	15.8	12.6	17.0	19.4	15.9	651	ND	22.5	ND	ND	79.4
B-30 (0-2)	2/6/2018	mg/kg	105	202	5.3	86.4	1.2	82.6	14.1	58.8	59.9	30.8	241	17.8	43.8	14.7	1.9	170
B-30 (24-25)	2/6/2018	mg/kg	31.6	86.9	0.65	ND	ND	11.3	8.7	11.1	8.0	15.3	324	2.9	15.8	ND	ND	45.0
B-31 (0-2)	2/5/2018	mg/kg	19.8	414	2.2	45.0	ND	29.6	6.2	18.5	7.7	19.8	83.3	3.1	17.3	2.6	ND	29.5
B-31 (38-40)	2/5/2018	mg/kg	10.0	164	1.3	ND	ND	22.9	13.6	21.6	14.4	25.5	545	1.4	26.6	ND	ND	79.2
B-32 (0-2)	2/5/2018	mg/kg	41.0	483	2.8	61.3	8.0	38.1	9.5	26.7	18.2	25.0	343	4.4	37.3	3.3	ND	179
B-32 (38-40)	2/5/2018	mg/kg	7.6	131	0.94	12.6	ND	17.0	12.4	16.6	11.5	19.0	927	21.0	21.3	ND	ND	60.7
B-33 (0-2)	2/5/2018	mg/kg	45.9	393	2.8	53.5	ND	33.7	8.0	29.0	17.4	19.3	79.8	3.3	21.4	6.9	ND	38.7
B-33 (44-45)	2/5/2018	mg/kg	31.4	254	2.7	27.9	ND	36.4	9.3	26.4	13.4	19.1	101	ND	18.4	4.8	ND	25.2
B-34 (0-2)	2/6/2018	mg/kg	30.4	308	3.1	46.4	8.1	54.7	11.5	48.4	15.9	19.0	145	5.0	36.3	6.3	6.0	159
B-34 (36-38)	2/6/2018	mg/kg	21.8	27.7	ND	ND	ND	5.4	4.2	3.9	3.6	5.7	132	ND	7.8	ND	ND	22.0
B-36 (0-2)	2/6/2018	mg/kg	3.3	198	1.8	29.3	ND	25.2	5.8	8.7	3.0	22.8	80.0	3.2	14.6	ND	ND	18.7
B-36 (12-14)	2/6/2018	mg/kg	9.6	100	0.84	19.1	ND	12.7	8.0	12.0	8.3	14.3	351	4.7	16.3	ND	ND	44.4
B-37 (0-2)	2/6/2018	mg/kg	23.2	88.9	1.3	26.1	ND	27.1	4.2	7.4	3.4	13.3	55.3	9.9	14.5	2.6	4.3	23.8
B-37 (38-40)	2/6/2018	mg/kg	42.7	112	0.74	7.9	ND	12.6	9.5	11.5	8.8	17.7	544	ND	17.1	ND	ND	48.9
B-38 (0-2)	2/6/2018	mg/kg	1.5	95.5	1.0	18.3	ND	14.3	3.0	3.9	ND	13.6	43.3	1.6	9.0	ND	2.8	5.5
B-38 (38-40)	2/6/2018	mg/kg	8.9	141	1.0	6.6	ND	17.5	13.4	17.8	12.5	22.2	903	5.9	24.1	ND	ND	66.3
Dup-1	2/1/2018	mg/kg	2.8	150	NA*	NA*	ND	5.8	NA*	NA*	5.2	NA*	NA*	NA*	NA*	NA*	NA*	NA*
DUP-2	2/2/2018	mg/kg	15.2	129	0.89	ND	ND	16.4	11.3	28.8	24.5	17.8	438	ND	20.5	ND	ND	69.9
DUP-3	2/2/2018	mg/kg	10.0	116	NA*	NA*	ND	17.1	NA*	NA*	20.1	NA*	NA*	NA*	NA*	ND	NA*	NA*
Dup-4	2/6/2018	mg/kg	23.1	28.4	ND	ND	ND	6.3	3.9	4.2	3.6	5.4	142	ND	7.7	ND	ND	20.0
B-39 (0-2)	4/17/2018	mg/kg	8.9	129	NA*	ND	ND	21.3	NA*	NA*	26.8	21.4	NA*	ND	NA*	ND	NA*	NA*
B-39 (28-30)	4/17/2018	mg/kg	2.0	97.7	NA*	ND	ND	13.1	NA*	NA*	9.0	14.8	NA*	ND	NA*	1.5	NA*	NA*
B-40 (0-2)	4/17/2018	mg/kg	10.0	164	NA*	ND	ND	19.3	NA*	NA*	18.1	19.4	NA*	1.1	NA*	ND	NA*	NA*
B-40 (32-34)	4/17/2018	mg/kg	4.9	97.2	NA*	ND	ND	15.9	NA*	NA*	10.8	17.0	NA*	ND	NA*	ND	NA*	NA*
B-41 (0-2)	4/17/2018	mg/kg	9.3	147	NA*	ND	0.64	18.9	NA*	NA*	22.1	18.9	NA*	1.2	NA*	ND	NA*	NA*
B-41 (24-26)	4/17/2018	mg/kg	17.2	106	NA*	ND	ND	11.8	NA*	NA*	12.5	11.2	NA*	ND	NA*	ND	NA*	NA*
B-42 (0-2)	4/17/2018	mg/kg	10.0	174	NA*	ND	ND	20.1	NA*	NA*	14.5	18.1	NA*	ND	NA*	ND	NA*	NA*
B-42 (18-20)	4/17/2018	mg/kg	6.0	59.8	NA*	ND	ND	10.5	NA*	NA*	6.9	9.9	NA*	ND	NA*	ND	NA*	NA*
B-43 (0-2)	4/17/2018	mg/kg	10.2	183	NA*	ND	ND	21.2	NA*	NA*	20.4	20.0	NA*	1.3	NA*	ND	NA*	NA*
B-43 (18-20)	4/17/2018	mg/kg	6.2	56.2	NA*	ND	ND	11.9	NA*	NA*	7.3	11.0	NA*	ND	NA*	ND	NA*	NA*
B-44 (0-2)	4/17/2018	mg/kg	10.7	187	NA*	ND	ND	20.5	NA*	NA*	21.8	20.0	NA*	1.3	NA*	ND	NA*	NA*



**Table 1C**  
**Soil Analytical Summary (Metals)**  
Phase II Limited Subsurface Investigation  
Former AEP Tanner's Creek Generating Station  
800 AEP Drive, Larenceburg, Indiana  
ATC Project No. 170EM00522

Sample ID	Collected Date	Units	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	Lead	Lithium	Manganese	Molybdenum	Nickel	Selenium	Thallium	Zinc
<b>Residential</b>			<b>9.5</b>	<b>21000</b>	<b>220</b>	<b>22000</b>	<b>99</b>	<b>NE</b>	<b>32</b>	<b>4300</b>	<b>400</b>	<b>220</b>	<b>NE</b>	<b>550</b>	<b>2100</b>	<b>550</b>	<b>1.1</b>	<b>32000</b>
<b>Com/Ind</b>			<b>30</b>	<b>100000</b>	<b>2300</b>	<b>100000</b>	<b>980</b>	<b>NE</b>	<b>350</b>	<b>47000</b>	<b>800</b>	<b>2300</b>	<b>NE</b>	<b>5800</b>	<b>22000</b>	<b>5800</b>	<b>12</b>	<b>100000</b>
<b>Excavation</b>			<b>920</b>	<b>100000</b>	<b>3800</b>	<b>100000</b>	<b>1900</b>	<b>NE</b>	<b>590</b>	<b>79000</b>	<b>1000</b>	<b>3900</b>	<b>NE</b>	<b>9800</b>	<b>38000</b>	<b>9800</b>	<b>20</b>	<b>100000</b>
<b>Soil MTG Residential</b>			<b>5.9</b>	<b>1700</b>	<b>63</b>	<b>260</b>	<b>NE</b>	<b>1000000</b>	<b>5.4</b>	<b>920</b>	<b>270</b>	<b>240</b>	<b>NE</b>	<b>41</b>	<b>510</b>	<b>5.3</b>	<b>2.9</b>	<b>7500</b>
B-44 (18-20)	4/17/2018	mg/kg	6.4	66.5	NA*	ND	ND	12.8	NA*	NA*	9.1	11.8	NA*	ND	NA*	ND	NA*	NA*
B-45 (0-2)	4/18/2018	mg/kg	9.0	155	NA*	ND	ND	18.4	NA*	NA*	19.0	16.5	NA*	ND	NA*	ND	NA*	NA*
B-45 (14-16)	4/18/2018	mg/kg	7.9	94.8	NA*	ND	ND	14.4	NA*	NA*	10.3	12.4	NA*	ND	NA*	ND	NA*	NA*
B-46 (0-2)	4/18/2018	mg/kg	10.7	198	NA*	ND	ND	21.2	NA*	NA*	21.5	19.2	NA*	ND	NA*	ND	NA*	NA*
B-46 (26-28)	4/18/2018	mg/kg	8.6	96.3	NA*	ND	ND	15.8	NA*	NA*	11.9	13.7	NA*	ND	NA*	ND	NA*	NA*
B-47 (0-2)	4/18/2018	mg/kg	10.5	183	NA*	ND	ND	22.7	NA*	NA*	22.9	20.4	NA*	1.1	NA*	ND	NA*	NA*
B-47 (26-28)	4/18/2018	mg/kg	5.4	76.0	NA*	ND	ND	16.1	NA*	NA*	9.4	15.4	NA*	ND	NA*	ND	NA*	NA*
B-48 (0-2)	4/18/2018	mg/kg	9.9	173	NA*	ND	ND	21.0	NA*	NA*	19.6	18.5	NA*	ND	NA*	ND	NA*	NA*
B-48 (22-24)	4/18/2018	mg/kg	4.5	74.2	NA*	ND	ND	18.4	NA*	NA*	10.7	16.3	NA*	ND	NA*	ND	NA*	NA*
B-49 (0-2)	4/18/2018	mg/kg	13.5	152	NA*	ND	ND	22.8	NA*	NA*	24.6	19.3	NA*	1.5	NA*	ND	NA*	NA*
B-49 (26-28)	4/18/2018	mg/kg	6.6	89.2	NA*	ND	ND	11.6	NA*	NA*	7.8	10.4	NA*	ND	NA*	ND	NA*	NA*
B-50 (0-2)	4/18/2018	mg/kg	9.5	161	NA*	ND	0.64	22.2	NA*	NA*	22.6	19.3	NA*	1.2	NA*	ND	NA*	NA*
B-50 (22-24)	4/18/2018	mg/kg	3.2	59.9	NA*	ND	ND	12.3	NA*	NA*	8.9	12.5	NA*	ND	NA*	ND	NA*	NA*
B-51 (0-2)	4/18/2018	mg/kg	31.9	152	NA*	5.2	ND	23.0	NA*	NA*	26.7	17.8	NA*	1.9	NA*	ND	NA*	NA*
B-51 (14-16)	4/18/2018	mg/kg	6.8	66.1	NA*	ND	ND	11.4	NA*	NA*	9.1	9.7	NA*	ND	NA*	ND	NA*	NA*
B-52 (0-2)	4/18/2018	mg/kg	9.7	130	NA*	ND	0.76	21.6	NA*	NA*	30.1	17.3	NA*	1.2	NA*	ND	NA*	NA*
B-52 (30-32)	4/18/2018	mg/kg	3.8	84.7	NA*	ND	ND	14.2	NA*	NA*	10.3	15.4	NA*	ND	NA*	ND	NA*	NA*
B-53 (0-2)	4/19/2018	mg/kg	10.0	191	NA*	ND	ND	21.9	NA*	NA*	13.2	20.2	NA*	ND	NA*	ND	NA*	NA*
B-53 (24-26)	4/19/2018	mg/kg	4.7	80.3	NA*	6.8	ND	14.8	NA*	NA*	9.4	16.5	NA*	ND	NA*	ND	NA*	NA*
B-54 (0-2)	4/19/2018	mg/kg	7.8	121	NA*	ND	ND	23.8	NA*	NA*	13.4	21.1	NA*	ND	NA*	ND	NA*	NA*
B-54 (26-28)	4/19/2018	mg/kg	6.4	130	NA*	7.3	ND	18.8	NA*	NA*	11.0	20.4	NA*	ND	NA*	ND	NA*	NA*
B-55 (0-2)	4/19/2018	mg/kg	6.7	131	NA*	5.5	ND	22.6	NA*	NA*	9.5	28.7	NA*	ND	NA*	ND	NA*	NA*
B-55 (30-32)	4/19/2018	mg/kg	7.3	81.9	NA*	7.9	ND	12.8	NA*	NA*	8.8	12.8	NA*	ND	NA*	ND	NA*	NA*
B-56 (0-2)	4/19/2018	mg/kg	4.1	37.8	NA*	14.6	ND	21.6	NA*	NA*	6.0	38.5	NA*	ND	NA*	ND	NA*	NA*
B-56 (26-28)	4/19/2018	mg/kg	8.2	117	NA*	ND	ND	17.1	NA*	NA*	10.9	16.7	NA*	ND	NA*	ND	NA*	NA*
B-57 (0-2)	4/19/2018	mg/kg	9.7	152	NA*	ND	ND	19.7	NA*	NA*	12.6	19.0	NA*	1.2	NA*	ND	NA*	NA*
B-57 (18-20)	4/19/2018	mg/kg	6.2	69.1	NA*	6.1	ND	10.9	NA*	NA*	7.1	10.0	NA*	ND	NA*	ND	NA*	NA*
B-58 (0-2)	4/19/2018	mg/kg	9.0	125	NA*	7.1	ND	21.0	NA*	NA*	15.6	22.9	NA*	ND	NA*	ND	NA*	NA*
B-58 (18-20)	4/19/2018	mg/kg	7.7	108	NA*	6.0	ND	15.8	NA*	NA*	10.0	15.3	NA*	ND	NA*	ND	NA*	NA*
B-59 (0-2)	4/19/2018	mg/kg	3.6	29.3	NA*	18.1	ND	23.0	NA*	NA*	6.0	47.6	NA*	ND	NA*	ND	NA*	NA*
B-59 (30-32)	4/19/2018	mg/kg	7.2	97.4	NA*	7.6	ND	15.5	NA*	NA*	9.4	16.5	NA*	ND	NA*	ND	NA*	NA*
B-60 (0-2)	4/20/2018	mg/kg	7.9	160	NA*	ND	ND	20.6	NA*	NA*	13.1	23.4	NA*	ND	NA*	ND	NA*	NA*
B-60 (36-38)	4/20/2018	mg/kg	8.1	97.0	NA*	ND	ND	12.4	NA*	NA*	15.6	12.7	NA*	ND	NA*	ND	NA*	NA*
B-61 (0-2)	4/20/2018	mg/kg	7.5	116	NA*	ND	ND	16.0	NA*	NA*	17.1	18.3	NA*	1.3	NA*	ND	NA*	NA*
B-61 (22-24)	4/20/2018	mg/kg	6.6	113	NA*	10.3	ND	13.1	NA*	NA*	10.5	12.2	NA*	ND	NA*	ND	NA*	NA*
B-62 (0-2)	4/20/2018	mg/kg	7.5	113	NA*	5.1	ND	14.5	NA*	NA*	10.3	14.5	NA*	ND	NA*	ND	NA*	NA*
B-62 (14-16)	4/20/2018	mg/kg	4.6	50.4	NA*	ND	ND	7.9	NA*	NA*	5.7	7.1	NA*	ND	NA*	ND	NA*	NA*
B-63 (0-2)	4/23/2018	mg/kg	7.0	284	NA*	37.4	ND	12.8	NA*	NA*	13.2	13.7	NA*	1.5	NA*	1.5	NA*	NA*
B-63 (34-36)	4/23/2018	mg/kg	8.4	111	NA*	ND	ND	14.8	NA*	NA*	15.3	14.6	NA*	1.3	NA*	ND	NA*	NA*
B-64 (0-2)	4/23/2018	mg/kg	11.9	93.2	NA*	21.3	ND	24.1	NA*	NA*	2.5	13.4	NA*	7.8	NA*	2.2	NA*	NA*
B-64 (40-42)	4/23/2018	mg/kg	11.9	182	NA*	ND	1.4	41.4	NA*	NA*	47.1	21.9	NA*	1.9	NA*	ND	NA*	NA*
B-65 (0-2)	4/23/2018	mg/kg	8.6	152	NA*	ND	ND	16.6	NA*	NA*	14.6	16.5	NA*	ND	NA*	ND	NA*	NA*
B-65 (38-40)	4/23/2018	mg/kg	8.0	93.2	NA*	ND	ND	14.5	NA*	NA*	15.5	16.4	NA*	ND	NA*	ND	NA*	NA*
B-66 (0-2)	4/23/2018	mg/kg	8.3	103	NA*	ND	ND	16.2	NA*	NA*	14.2	16.6	NA*	ND	NA*	ND	NA*	NA*
B-66 (38-40)	4/23/2018	mg/kg	8.0	94.7	NA*	ND	ND	12.9	NA*	NA*	15.9	14.1	NA*	ND	NA*	ND	NA*	NA*

**Table 1C**  
**Soil Analytical Summary (Metals)**  
Phase II Limited Subsurface Investigation  
Former AEP Tanner's Creek Generating Station  
800 AEP Drive, Larenceburg, Indiana  
ATC Project No. 170EM00522

Sample ID	Collected Date	Units	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	Lead	Lithium	Manganese	Molybdenum	Nickel	Selenium	Thallium	Zinc
<b>Residential</b>			<b>9.5</b>	<b>21000</b>	<b>220</b>	<b>22000</b>	<b>99</b>	<b>NE</b>	<b>32</b>	<b>4300</b>	<b>400</b>	<b>220</b>	<b>NE</b>	<b>550</b>	<b>2100</b>	<b>550</b>	<b>1.1</b>	<b>32000</b>
<b>Com/Ind</b>			<b>30</b>	<b>100000</b>	<b>2300</b>	<b>100000</b>	<b>980</b>	<b>NE</b>	<b>350</b>	<b>47000</b>	<b>800</b>	<b>2300</b>	<b>NE</b>	<b>5800</b>	<b>22000</b>	<b>5800</b>	<b>12</b>	<b>100000</b>
<b>Excavation</b>			<b>920</b>	<b>100000</b>	<b>3800</b>	<b>100000</b>	<b>1900</b>	<b>NE</b>	<b>590</b>	<b>79000</b>	<b>1000</b>	<b>3900</b>	<b>NE</b>	<b>9800</b>	<b>38000</b>	<b>9800</b>	<b>20</b>	<b>100000</b>
<b>Soil MTG Residential</b>			<b>5.9</b>	<b>1700</b>	<b>63</b>	<b>260</b>	<b>NE</b>	<b>1000000</b>	<b>5.4</b>	<b>920</b>	<b>270</b>	<b>240</b>	<b>NE</b>	<b>41</b>	<b>510</b>	<b>5.3</b>	<b>2.9</b>	<b>7500</b>
B-67 (0-2)	4/23/2018	mg/kg	ND	103	NA*	22.1	ND	22.0	NA*	NA*	ND	13.6	NA*	2.0	NA*	ND	NA*	NA*
B-67 (20-22)	4/23/2018	mg/kg	<b>6.4</b>	102	NA*	ND	ND	12.4	NA*	NA*	11.0	12.8	NA*	ND	NA*	ND	NA*	NA*
B-68 (0-2)	4/24/2018	mg/kg	<b>9.6</b>	160	NA*	ND	ND	19.2	NA*	NA*	13.6	19.8	NA*	ND	NA*	ND	NA*	NA*
B-68 (46-48)	4/24/2018	mg/kg	<b>8.9</b>	154	NA*	ND	ND	17.1	NA*	NA*	12.0	18.1	NA*	ND	NA*	ND	NA*	NA*
B-69 (0-2)	4/24/2018	mg/kg	<b>14.4</b>	53.0	NA*	12.6	ND	7.9	NA*	NA*	5.4	5.9	NA*	ND	NA*	ND	NA*	NA*
B-69 (18-20)	4/24/2018	mg/kg	<b>10.0</b>	150	NA*	8.7	ND	17.8	NA*	NA*	8.3	8.9	NA*	ND	NA*	ND	NA*	NA*
B-70 (0-2)	4/24/2018	mg/kg	5.4	34.9	NA*	ND	ND	13.1	NA*	NA*	5.2	5.6	NA*	ND	NA*	ND	NA*	NA*
B-70 (24-26)	4/24/2018	mg/kg	<b>13.7</b>	145	NA*	9.6	ND	17.8	NA*	NA*	8.5	9.9	NA*	ND	NA*	1.7	NA*	NA*
B-71 (0-2)	4/24/2018	mg/kg	3.5	16.6	NA*	16.6	ND	5.1	NA*	NA*	2.7	14.9	NA*	ND	NA*	ND	NA*	NA*
B-71 (42-44)	4/24/2018	mg/kg	<b>6.7</b>	103	NA*	ND	ND	13.6	NA*	NA*	9.7	15.2	NA*	ND	NA*	ND	NA*	NA*
B-72 (0-2)	4/24/2018	mg/kg	<b>7.5</b>	116	NA*	5.9	ND	11.1	NA*	NA*	7.0	12.0	NA*	1.1	NA*	ND	NA*	NA*
B-72 (46-48)	4/24/2018	mg/kg	<b>6.8</b>	80.7	NA*	ND	ND	12.4	NA*	NA*	8.4	12.0	NA*	ND	NA*	ND	NA*	NA*
B-73 (0-2)	4/24/2018	mg/kg	<b>6.6</b>	41.9	NA*	12.6	ND	9.4	NA*	NA*	12.1	14.2	NA*	1.4	NA*	2.2	NA*	NA*
B-73 (34-36)	4/24/2018	mg/kg	<b>6.4</b>	113	NA*	ND	ND	13.8	NA*	NA*	9.5	14.1	NA*	ND	NA*	ND	NA*	NA*
B-74 (0-2)	4/25/2018	mg/kg	<b>9.1</b>	132	NA*	16.3	0.87	16.3	NA*	NA*	53.4	14.0	NA*	2.0	NA*	<b>8.3</b>	NA*	NA*
B-74 (34-36)	4/25/2018	mg/kg	<b>9.8</b>	119	NA*	ND	ND	15.9	NA*	NA*	22.1	17.2	NA*	ND	NA*	ND	NA*	NA*
B-75 (0-2)	4/25/2018	mg/kg	4.8	93.3	NA*	21.5	ND	18.5	NA*	NA*	56.0	19.3	NA*	1.7	NA*	<b>6.6</b>	NA*	NA*
B-75 (10-12)	4/25/2018	mg/kg	<b>8.5</b>	98.2	NA*	ND	ND	15.0	NA*	NA*	24.0	12.3	NA*	ND	NA*	ND	NA*	NA*
DUP-1	4/18/2018	mg/kg	5.2	61.6	NA*	5.7	ND	11.5	NA*	NA*	8.1	9.8	NA*	ND	NA*	ND	NA*	NA*
DUP-2	4/19/2018	mg/kg	<b>7.7</b>	117	NA*	ND	ND	17.3	NA*	NA*	10.0	17.8	NA*	ND	NA*	ND	NA*	NA*
DUP-3	4/23/2018	mg/kg	<b>9.5</b>	93.7	NA*	ND	ND	13.6	NA*	NA*	21.3	14.2	NA*	ND	NA*	ND	NA*	NA*
DUP-4	4/24/2018	mg/kg	<b>15.3</b>	150	NA*	9.9	ND	18.1	NA*	NA*	8.1	10.1	NA*	1.3	NA*	1.4	NA*	NA*

IDEM RCG = Indiana Department of Environmental Management Remediation Closure Guide (IDEM RCG) (Screening Levels updated March 2018)

Samples were analyzed for metals using US EPA SW-846 Methods 6010B, 7196, and 7470

Constituents not detected above laboratory detection limits are not listed in this table.

NA = Not analyzed

ND = Not detected

**BOLD** = results above IDEM RCG Residential Direct Contact Screening Level

**BOLD/ITALICS** = results above IDEM RCG Commercial/Industrial Direct Contact Screening Level

**BOLD/SHADED** = results above IDEM RCG Excavation Direct Contact Screening Level

**Table 1D**  
**Soil Analytical Summary (PCBs)**  
Phase II Limited Subsurface Investigation  
Former AEP Tanner's Creek Generating Station  
800 AEP Drive, Larenceburg, Indiana  
ATC Project No. 170EM00522

Sample ID	Collected Date	Units	PCB-1242 (Aroclor 1242)	PCB-1260 (Aroclor 1260)
<b>Residential</b>			<b>3.2</b>	<b>3.4</b>
<b>Com/Ind</b>			<b>9.5</b>	<b>9.9</b>
<b>Excavation</b>			<b>560</b>	<b>570</b>
<b>Soil MTG Residential</b>			<b>0.24</b>	<b>1.1</b>
B-1 (0-2)	2/2/2018	mg/kg	NA*	NA*
B-1 (14-16)	2/2/2018	mg/kg	NA*	NA*
B-2 (0-2)	2/2/2018	mg/kg	NA*	NA*
B-2 (14-15)	2/2/2018	mg/kg	NA*	NA*
B-3 (0-2)	1/17/2018	mg/kg	ND	ND
B-3 (24-25)	2/2/2018	mg/kg	NA*	NA*
B-4 (0-2)	2/2/2018	mg/kg	NA*	NA*
B-4 (18-20)	2/5/2018	mg/kg	NA*	NA*
B-5 (0-2)	2/2/2018	mg/kg	ND	ND
B-5 (16-18)	2/2/2018	mg/kg	NA*	NA*
B-6 (0-2)	2/2/2018	mg/kg	NA*	NA*
B-6 (18-20)	2/2/2018	mg/kg	NA*	NA*
B-7 (0-2)	2/1/2018	mg/kg	NA*	NA*
B-7 (20-22)	2/1/2018	mg/kg	NA*	NA*
B-8 (0-2)	2/2/2018	mg/kg	NA*	NA*
B-8 (8-10)	2/2/2018	mg/kg	NA*	NA*
B-9 (0-2)	2/1/2018	mg/kg	ND	ND
B-9 (30-32)	2/1/2018	mg/kg	NA*	NA*
B-10 (0-2)	2/1/2018	mg/kg	ND	ND
B-10 (18-20)	2/1/2018	mg/kg	NA*	NA*
B-11 (0-2)	2/1/2018	mg/kg	NA*	NA*
B-11 (32-34)	2/1/2018	mg/kg	NA*	NA*
B-12 (0-2)	2/1/2018	mg/kg	NA*	NA*
B-12 (20-22)	2/1/2018	mg/kg	NA*	NA*
B-13 (0-2)	2/1/2018	mg/kg	NA*	NA*
B-13 (28-30)	2/1/2018	mg/kg	NA*	NA*
B-14 (0-2)	1/29/2018	mg/kg	NA*	NA*
B-14 (28-30)	1/29/2018	mg/kg	NA*	NA*
B-15 (0-2)	1/29/2018	mg/kg	NA*	NA*
B-15 (32-34)	1/29/2018	mg/kg	NA*	NA*
B-16 (0-2)	1/29/2018	mg/kg	NA*	NA*
B-16 (34-36)	1/29/2018	mg/kg	NA*	NA*
B-17 (0-2)	1/31/2018	mg/kg	NA*	NA*
B-17 (32-34)	1/31/2018	mg/kg	NA*	NA*
B-18 (0-2)	1/30/2018	mg/kg	NA*	NA*
B-18 (26-28)	1/30/2018	mg/kg	NA*	NA*

**Table 1D**  
**Soil Analytical Summary (PCBs)**  
Phase II Limited Subsurface Investigation  
Former AEP Tanner's Creek Generating Station  
800 AEP Drive, Larenceburg, Indiana  
ATC Project No. 170EM00522

Sample ID	Collected Date	Units	PCB-1242 (Aroclor 1242)	PCB-1260 (Aroclor 1260)
<b>Residential</b>			<b>3.2</b>	<b>3.4</b>
<b>Com/Ind</b>			<b>9.5</b>	<b>9.9</b>
<b>Excavation</b>			<b>560</b>	<b>570</b>
<b>Soil MTG Residential</b>			<b>0.24</b>	<b>1.1</b>
B-19 (0-2)	1/30/2018	mg/kg	NA*	NA*
B-19 (30-32)	1/30/2018	mg/kg	NA*	NA*
B-20 (0-2)	1/30/2018	mg/kg	NA*	NA*
B-20 (28-30)	1/30/2018	mg/kg	NA*	NA*
B-21 (0-2)	1/30/2018	mg/kg	ND	ND
B-21 (28-30)	1/30/2018	mg/kg	NA*	NA*
B-22 (0-2)	1/30/2018	mg/kg	NA*	NA*
B-22 (24-26)	1/30/2018	mg/kg	NA*	NA*
B-23 (0-2)	1/31/2018	mg/kg	NA*	NA*
B-23 (10-12)	1/31/2018	mg/kg	NA*	NA*
B-24 (0-2)	1/31/2018	mg/kg	NA*	NA*
B-24 (16-18)	1/31/2018	mg/kg	NA*	NA*
B-25 (0-2)	1/31/2018	mg/kg	NA*	NA*
B-25 (10-12)	1/31/2018	mg/kg	NA*	NA*
B-26 (0-2)	1/31/2018	mg/kg	NA*	NA*
B-26 (24-26)	1/31/2018	mg/kg	NA*	NA*
B-27 (0-2)	2/5/2018	mg/kg	NA*	NA*
B-27 (48-50)	2/5/2018	mg/kg	NA*	NA*
B-28 (0-2)	2/6/2018	mg/kg	NA*	NA*
B-28 (28-30)	2/6/2018	mg/kg	NA*	NA*
B-29 (0-2)	2/6/2018	mg/kg	NA*	NA*
B-29 (14-16)	2/6/2018	mg/kg	NA*	NA*
B-30 (0-2)	2/6/2018	mg/kg	NA*	NA*
B-30 (24-25)	2/6/2018	mg/kg	NA*	NA*
B-31 (0-2)	2/5/2018	mg/kg	NA*	NA*
B-31 (38-40)	2/5/2018	mg/kg	NA*	NA*
B-32 (0-2)	2/5/2018	mg/kg	NA*	NA*
B-32 (38-40)	2/5/2018	mg/kg	NA*	NA*
B-33 (0-2)	2/5/2018	mg/kg	NA*	NA*
B-33 (44-45)	2/5/2018	mg/kg	NA*	NA*
B-34 (0-2)	2/6/2018	mg/kg	ND	ND
B-34 (36-38)	2/6/2018	mg/kg	NA*	NA*
B-36 (0-2)	2/6/2018	mg/kg	NA*	NA*
B-36 (12-14)	2/6/2018	mg/kg	NA*	NA*
B-37 (0-2)	2/6/2018	mg/kg	NA*	NA*
B-37 (38-40)	2/6/2018	mg/kg	NA*	NA*

**Table 1D**  
**Soil Analytical Summary (PCBs)**  
Phase II Limited Subsurface Investigation  
Former AEP Tanner's Creek Generating Station  
800 AEP Drive, Larenceburg, Indiana  
ATC Project No. 170EM00522

Sample ID	Collected Date	Units	PCB-1242 (Aroclor 1242)	PCB-1260 (Aroclor 1260)
<b>Residential</b>			<b>3.2</b>	<b>3.4</b>
<b>Com/Ind</b>			<b>9.5</b>	<b>9.9</b>
<b>Excavation</b>			<b>560</b>	<b>570</b>
<b>Soil MTG Residential</b>			<b>0.24</b>	<b>1.1</b>
B-38 (0-2)	2/6/2018	mg/kg	ND	0.210
B-38 (38-40)	2/6/2018	mg/kg	NA*	NA*
Dup-1	2/1/2018	mg/kg	NA*	NA*
DUP-2	2/2/2018	mg/kg	NA*	NA*
DUP-3	2/2/2018	mg/kg	NA*	NA*
Dup-4	2/6/2018	mg/kg	NA*	NA*
B-39 (0-2)	4/17/2018	mg/kg	NA*	NA*
B-39 (28-30)	4/17/2018	mg/kg	NA*	NA*
B-40 (0-2)	4/17/2018	mg/kg	NA*	NA*
B-40 (32-34)	4/17/2018	mg/kg	NA*	NA*
B-41 (0-2)	4/17/2018	mg/kg	NA*	NA*
B-41 (24-26)	4/17/2018	mg/kg	NA*	NA*
B-42 (0-2)	4/17/2018	mg/kg	NA*	NA*
B-42 (18-20)	4/17/2018	mg/kg	NA*	NA*
B-43 (0-2)	4/17/2018	mg/kg	NA*	NA*
B-43 (18-20)	4/17/2018	mg/kg	NA*	NA*
B-44 (0-2)	4/17/2018	mg/kg	NA*	NA*
B-44 (18-20)	4/17/2018	mg/kg	NA*	NA*
B-45 (0-2)	4/18/2018	mg/kg	NA*	NA*
B-45 (14-16)	4/18/2018	mg/kg	NA*	NA*
B-46 (0-2)	4/18/2018	mg/kg	NA*	NA*
B-46 (26-28)	4/18/2018	mg/kg	NA*	NA*
B-47 (0-2)	4/18/2018	mg/kg	NA*	NA*
B-47 (26-28)	4/18/2018	mg/kg	NA*	NA*
B-48 (0-2)	4/18/2018	mg/kg	NA*	NA*
B-48 (22-24)	4/18/2018	mg/kg	NA*	NA*
B-49 (0-2)	4/18/2018	mg/kg	NA*	NA*
B-49 (26-28)	4/18/2018	mg/kg	NA*	NA*
B-50 (0-2)	4/18/2018	mg/kg	NA*	NA*
B-50 (22-24)	4/18/2018	mg/kg	NA*	NA*
B-51 (0-2)	4/18/2018	mg/kg	NA*	NA*
B-51 (14-16)	4/18/2018	mg/kg	NA*	NA*
B-52 (0-2)	4/18/2018	mg/kg	NA*	NA*
B-52 (30-32)	4/18/2018	mg/kg	NA*	NA*
B-53 (0-2)	4/19/2018	mg/kg	NA*	NA*
B-53 (24-26)	4/19/2018	mg/kg	NA*	NA*

**Table 1D**  
**Soil Analytical Summary (PCBs)**  
Phase II Limited Subsurface Investigation  
Former AEP Tanner's Creek Generating Station  
800 AEP Drive, Larenceburg, Indiana  
ATC Project No. 170EM00522

Sample ID	Collected Date	Units	PCB-1242 (Aroclor 1242)	PCB-1260 (Aroclor 1260)
<b>Residential</b>			<b>3.2</b>	<b>3.4</b>
<b>Com/Ind</b>			<b>9.5</b>	<b>9.9</b>
<b>Excavation</b>			<b>560</b>	<b>570</b>
<b>Soil MTG Residential</b>			<b>0.24</b>	<b>1.1</b>
B-54 (0-2)	4/19/2018	mg/kg	NA*	NA*
B-54 (26-28)	4/19/2018	mg/kg	NA*	NA*
B-55 (0-2)	4/19/2018	mg/kg	NA*	NA*
B-55 (30-32)	4/19/2018	mg/kg	NA*	NA*
B-56 (0-2)	4/19/2018	mg/kg	NA*	NA*
B-56 (26-28)	4/19/2018	mg/kg	NA*	NA*
B-57 (0-2)	4/19/2018	mg/kg	NA*	NA*
B-57 (18-20)	4/19/2018	mg/kg	NA*	NA*
B-58 (0-2)	4/19/2018	mg/kg	NA*	NA*
B-58 (18-20)	4/19/2018	mg/kg	NA*	NA*
B-59 (0-2)	4/19/2018	mg/kg	NA*	NA*
B-59 (30-32)	4/19/2018	mg/kg	NA*	NA*
B-60 (0-2)	4/20/2018	mg/kg	ND	ND
B-60 (36-38)	4/20/2018	mg/kg	ND	ND
B-61 (0-2)	4/20/2018	mg/kg	ND	ND
B-61 (22-24)	4/20/2018	mg/kg	ND	ND
B-62 (0-2)	4/20/2018	mg/kg	ND	ND
B-62 (14-16)	4/20/2018	mg/kg	ND	ND
B-63 (0-2)	4/23/2018	mg/kg	ND	ND
B-63 (34-36)	4/23/2018	mg/kg	ND	ND
B-64 (0-2)	4/23/2018	mg/kg	ND	ND
B-64 (40-42)	4/23/2018	mg/kg	ND	ND
B-65 (0-2)	4/23/2018	mg/kg	ND	ND
B-65 (38-40)	4/23/2018	mg/kg	ND	ND
B-66 (0-2)	4/23/2018	mg/kg	ND	ND
B-66 (38-40)	4/23/2018	mg/kg	ND	ND
B-67 (0-2)	4/23/2018	mg/kg	ND	ND
B-67 (20-22)	4/23/2018	mg/kg	ND	ND
B-68 (0-2)	4/24/2018	mg/kg	ND	ND
B-68 (46-48)	4/24/2018	mg/kg	ND	ND
B-69 (0-2)	4/24/2018	mg/kg	ND	ND
B-69 (18-20)	4/24/2018	mg/kg	ND	ND
B-70 (0-2)	4/24/2018	mg/kg	ND	ND
B-70 (24-26)	4/24/2018	mg/kg	ND	ND
B-71 (0-2)	4/24/2018	mg/kg	<b>0.365</b>	ND
B-71 (42-44)	4/24/2018	mg/kg	ND	ND

**Table 1D**  
**Soil Analytical Summary (PCBs)**  
Phase II Limited Subsurface Investigation  
Former AEP Tanner's Creek Generating Station  
800 AEP Drive, Larenceburg, Indiana  
ATC Project No. 170EM00522

Sample ID	Collected Date	Units	PCB-1242 (Aroclor 1242)	PCB-1260 (Aroclor 1260)
<b>Residential</b>			<b>3.2</b>	<b>3.4</b>
<b><i>Com/Ind</i></b>			<b>9.5</b>	<b>9.9</b>
<b>Excavation</b>			<b>560</b>	<b>570</b>
<b>Soil MTG Residential</b>			<b>0.24</b>	<b>1.1</b>
B-72 (0-2)	4/24/2018	mg/kg	ND	ND
B-72 (46-48)	4/24/2018	mg/kg	ND	ND
B-73 (0-2)	4/24/2018	mg/kg	ND	ND
B-73 (34-36)	4/24/2018	mg/kg	ND	ND
B-74 (0-2)	4/25/2018	mg/kg	ND	ND
B-74 (34-36)	4/25/2018	mg/kg	ND	ND
B-75 (0-2)	4/25/2018	mg/kg	<b>0.682</b>	ND
B-75 (10-12)	4/25/2018	mg/kg	ND	ND
DUP-1	4/18/2018	mg/kg	NA*	NA*
DUP-2	4/19/2018	mg/kg	NA*	NA*
DUP-3	4/23/2018	mg/kg	NA*	NA*
DUP-4	4/24/2018	mg/kg	NA*	NA*

Notes:

Results are presented in milligrams per kilogram (mg/kg).

Samples were analyzed using US EPA SW-846 Method 8082.

Constituents not detected above laboratory detection limits are not listed in the table.

IDEM RCG = Indiana Department of Environmental Management Remediation Closure Guide (IDEM RCG) (Screening Levels updated March 2018)

NA = Not analyzed

ND = Not detected

**BOLD** = results above IDEM RCG Residential Direct Contact or Migration to Groundwater Screening Level

***BOLD/ITALICS*** = results above IDEM RCG Commercial/Industrial Direct Contact Screening Level

**SHADED** = results above IDEM RCG Excavation Direct Contact Screening Level

**Table 1E**  
**Soil Analytical Summary (Fluoride)**  
Phase II Limited Subsurface Investigation  
Former AEP Tanner's Creek Generating Station  
800 AEP Drive, Larenceburg, Indiana  
ATC Project No. 170EM00522

Sample ID	Collected Date	Units	Fluoride
<b>Residential</b>			<b>4300</b>
<b>Com/Ind</b>			<b>47000</b>
<b>Excavation</b>			<b>79000</b>
B-1 (0-2)	2/2/2018	mg/kg	ND
B-1 (14-16)	2/2/2018	mg/kg	ND
B-2 (0-2)	2/2/2018	mg/kg	ND
B-2 (14-15)	2/2/2018	mg/kg	ND
B-3 (0-2)	1/17/2018	mg/kg	ND
B-3 (24-25)	2/2/2018	mg/kg	ND
B-4 (0-2)	2/2/2018	mg/kg	ND
B-4 (18-20)	2/5/2018	mg/kg	ND
B-5 (0-2)	2/2/2018	mg/kg	ND
B-5 (16-18)	2/2/2018	mg/kg	ND
B-6 (0-2)	2/2/2018	mg/kg	ND
B-6 (18-20)	2/2/2018	mg/kg	ND
B-7 (0-2)	2/1/2018	mg/kg	ND
B-7 (20-22)	2/1/2018	mg/kg	ND
B-8 (0-2)	2/2/2018	mg/kg	NA*
B-8 (8-10)	2/2/2018	mg/kg	NA*
B-9 (0-2)	2/1/2018	mg/kg	NA*
B-9 (30-32)	2/1/2018	mg/kg	NA*
B-10 (0-2)	2/1/2018	mg/kg	NA*
B-10 (18-20)	2/1/2018	mg/kg	NA*
B-11 (0-2)	2/1/2018	mg/kg	NA*
B-11 (32-34)	2/1/2018	mg/kg	NA*
B-12 (0-2)	2/1/2018	mg/kg	NA*
B-12 (20-22)	2/1/2018	mg/kg	NA*
B-13 (0-2)	2/1/2018	mg/kg	NA*
B-13 (28-30)	2/1/2018	mg/kg	NA*
B-14 (0-2)	1/29/2018	mg/kg	NA*
B-14 (28-30)	1/29/2018	mg/kg	NA*
B-15 (0-2)	1/29/2018	mg/kg	NA*
B-15 (32-34)	1/29/2018	mg/kg	NA*
B-16 (0-2)	1/29/2018	mg/kg	NA*
B-16 (34-36)	1/29/2018	mg/kg	NA*
B-17 (0-2)	1/31/2018	mg/kg	ND
B-17 (32-34)	1/31/2018	mg/kg	ND
B-18 (0-2)	1/30/2018	mg/kg	NA*
B-18 (26-28)	1/30/2018	mg/kg	NA*
B-19 (0-2)	1/30/2018	mg/kg	NA*
B-19 (30-32)	1/30/2018	mg/kg	NA*



**Table 1E**  
**Soil Analytical Summary (Fluoride)**  
Phase II Limited Subsurface Investigation  
Former AEP Tanner's Creek Generating Station  
800 AEP Drive, Larenceburg, Indiana  
ATC Project No. 170EM00522

Sample ID	Collected Date	Units	Fluoride
<b>Residential</b>			<b>4300</b>
<b>Com/Ind</b>			<b>47000</b>
<b>Excavation</b>			<b>79000</b>
B-20 (0-2)	1/30/2018	mg/kg	NA*
B-20 (28-30)	1/30/2018	mg/kg	NA*
B-21 (0-2)	1/30/2018	mg/kg	NA*
B-21 (28-30)	1/30/2018	mg/kg	NA*
B-22 (0-2)	1/30/2018	mg/kg	NA*
B-22 (24-26)	1/30/2018	mg/kg	NA*
B-23 (0-2)	1/31/2018	mg/kg	NA*
B-23 (10-12)	1/31/2018	mg/kg	NA*
B-24 (0-2)	1/31/2018	mg/kg	ND
B-24 (16-18)	1/31/2018	mg/kg	ND
B-25 (0-2)	1/31/2018	mg/kg	ND
B-25 (10-12)	1/31/2018	mg/kg	ND
B-26 (0-2)	1/31/2018	mg/kg	ND
B-26 (24-26)	1/31/2018	mg/kg	ND
B-27 (0-2)	2/5/2018	mg/kg	ND
B-27 (48-50)	2/5/2018	mg/kg	ND
B-28 (0-2)	2/6/2018	mg/kg	ND
B-28 (28-30)	2/6/2018	mg/kg	ND
B-29 (0-2)	2/6/2018	mg/kg	ND
B-29 (14-16)	2/6/2018	mg/kg	ND
B-30 (0-2)	2/6/2018	mg/kg	ND
B-30 (24-25)	2/6/2018	mg/kg	ND
B-31 (0-2)	2/5/2018	mg/kg	ND
B-31 (38-40)	2/5/2018	mg/kg	ND
B-32 (0-2)	2/5/2018	mg/kg	30.5
B-32 (38-40)	2/5/2018	mg/kg	ND
B-33 (0-2)	2/5/2018	mg/kg	ND
B-33 (44-45)	2/5/2018	mg/kg	ND
B-34 (0-2)	2/6/2018	mg/kg	ND
B-34 (36-38)	2/6/2018	mg/kg	ND
B-36 (0-2)	2/6/2018	mg/kg	ND
B-36 (12-14)	2/6/2018	mg/kg	ND
B-37 (0-2)	2/6/2018	mg/kg	ND
B-37 (38-40)	2/6/2018	mg/kg	ND
B-38 (0-2)	2/6/2018	mg/kg	ND
B-38 (38-40)	2/6/2018	mg/kg	ND
Dup-1	2/1/2018	mg/kg	NA*
DUP-2	2/2/2018	mg/kg	ND

**Table 1E**  
**Soil Analytical Summary (Fluoride)**  
Phase II Limited Subsurface Investigation  
Former AEP Tanner's Creek Generating Station  
800 AEP Drive, Larenceburg, Indiana  
ATC Project No. 170EM00522

Sample ID	Collected Date	Units	Fluoride
<b>Residential</b>			<b>4300</b>
<b>Com/Ind</b>			<b>47000</b>
<b>Excavation</b>			<b>79000</b>
DUP-3	2/2/2018	mg/kg	NA*
Dup-4	2/6/2018	mg/kg	ND
B-39 (0-2)	4/17/2018	mg/kg	NA*
B-39 (28-30)	4/17/2018	mg/kg	NA*
B-40 (0-2)	4/17/2018	mg/kg	NA*
B-40 (32-34)	4/17/2018	mg/kg	NA*
B-41 (0-2)	4/17/2018	mg/kg	NA*
B-41 (24-26)	4/17/2018	mg/kg	NA*
B-42 (0-2)	4/17/2018	mg/kg	NA*
B-42 (18-20)	4/17/2018	mg/kg	NA*
B-43 (0-2)	4/17/2018	mg/kg	NA*
B-43 (18-20)	4/17/2018	mg/kg	NA*
B-44 (0-2)	4/17/2018	mg/kg	NA*
B-44 (18-20)	4/17/2018	mg/kg	NA*
B-45 (0-2)	4/18/2018	mg/kg	NA*
B-45 (14-16)	4/18/2018	mg/kg	NA*
B-46 (0-2)	4/18/2018	mg/kg	NA*
B-46 (26-28)	4/18/2018	mg/kg	NA*
B-47 (0-2)	4/18/2018	mg/kg	NA*
B-47 (26-28)	4/18/2018	mg/kg	NA*
B-48 (0-2)	4/18/2018	mg/kg	NA*
B-48 (22-24)	4/18/2018	mg/kg	NA*
B-49 (0-2)	4/18/2018	mg/kg	NA*
B-49 (26-28)	4/18/2018	mg/kg	NA*
B-50 (0-2)	4/18/2018	mg/kg	NA*
B-50 (22-24)	4/18/2018	mg/kg	NA*
B-51 (0-2)	4/18/2018	mg/kg	NA*
B-51 (14-16)	4/18/2018	mg/kg	NA*
B-52 (0-2)	4/18/2018	mg/kg	NA*
B-52 (30-32)	4/18/2018	mg/kg	NA*
B-53 (0-2)	4/19/2018	mg/kg	NA*
B-53 (24-26)	4/19/2018	mg/kg	NA*
B-54 (0-2)	4/19/2018	mg/kg	NA*
B-54 (26-28)	4/19/2018	mg/kg	NA*
B-55 (0-2)	4/19/2018	mg/kg	NA*
B-55 (30-32)	4/19/2018	mg/kg	NA*
B-56 (0-2)	4/19/2018	mg/kg	NA*
B-56 (26-28)	4/19/2018	mg/kg	NA*

**Table 1E**  
**Soil Analytical Summary (Fluoride)**  
Phase II Limited Subsurface Investigation  
Former AEP Tanner's Creek Generating Station  
800 AEP Drive, Larenceburg, Indiana  
ATC Project No. 170EM00522

Sample ID	Collected Date	Units	Fluoride
<b>Residential</b>			<b>4300</b>
<b>Com/Ind</b>			<b>47000</b>
<b>Excavation</b>			<b>79000</b>
B-57 (0-2)	4/19/2018	mg/kg	NA*
B-57 (18-20)	4/19/2018	mg/kg	NA*
B-58 (0-2)	4/19/2018	mg/kg	NA*
B-58 (18-20)	4/19/2018	mg/kg	NA*
B-59 (0-2)	4/19/2018	mg/kg	NA*
B-59 (30-32)	4/19/2018	mg/kg	NA*
B-60 (0-2)	4/20/2018	mg/kg	NA*
B-60 (36-38)	4/20/2018	mg/kg	NA*
B-61 (0-2)	4/20/2018	mg/kg	NA*
B-61 (22-24)	4/20/2018	mg/kg	NA*
B-62 (0-2)	4/20/2018	mg/kg	NA*
B-62 (14-16)	4/20/2018	mg/kg	NA*
B-63 (0-2)	4/23/2018	mg/kg	NA*
B-63 (34-36)	4/23/2018	mg/kg	NA*
B-64 (0-2)	4/23/2018	mg/kg	NA*
B-64 (40-42)	4/23/2018	mg/kg	NA*
B-65 (0-2)	4/23/2018	mg/kg	NA*
B-65 (38-40)	4/23/2018	mg/kg	NA*
B-66 (0-2)	4/23/2018	mg/kg	NA*
B-66 (38-40)	4/23/2018	mg/kg	NA*
B-67 (0-2)	4/23/2018	mg/kg	NA*
B-67 (20-22)	4/23/2018	mg/kg	NA*
B-68 (0-2)	4/24/2018	mg/kg	NA*
B-68 (46-48)	4/24/2018	mg/kg	NA*
B-69 (0-2)	4/24/2018	mg/kg	NA*
B-69 (18-20)	4/24/2018	mg/kg	NA*
B-70 (0-2)	4/24/2018	mg/kg	NA*
B-70 (24-26)	4/24/2018	mg/kg	NA*
B-71 (0-2)	4/24/2018	mg/kg	NA*
B-71 (42-44)	4/24/2018	mg/kg	NA*
B-72 (0-2)	4/24/2018	mg/kg	NA*
B-72 (46-48)	4/24/2018	mg/kg	NA*
B-73 (0-2)	4/24/2018	mg/kg	NA*
B-73 (34-36)	4/24/2018	mg/kg	NA*
B-74 (0-2)	4/25/2018	mg/kg	NA*
B-74 (34-36)	4/25/2018	mg/kg	NA*
B-75 (0-2)	4/25/2018	mg/kg	NA*
B-75 (10-12)	4/25/2018	mg/kg	NA*

**Table 1E**  
**Soil Analytical Summary (Fluoride)**  
Phase II Limited Subsurface Investigation  
Former AEP Tanner's Creek Generating Station  
800 AEP Drive, Larenceburg, Indiana  
ATC Project No. 170EM00522

Sample ID	Collected Date	Units	Fluoride
<b>Residential</b>			<b>4300</b>
<b><i>Com/Ind</i></b>			<b><i>47000</i></b>
<b>Excavation</b>			<b>79000</b>
DUP-1	4/18/2018	mg/kg	NA*
DUP-2	4/19/2018	mg/kg	NA*
DUP-3	4/23/2018	mg/kg	NA*
DUP-4	4/24/2018	mg/kg	NA*

Notes:

Samples were analyzed using US EPA SW-846 Method 4500FC.  
IDEM RCG = Indiana Department of Environmental Management  
Remediation Closure Guide (IDEM RCG) (Screening Levels updated  
March 2018)

NA = Not analyzed

ND = Not detected

**BOLD** = results above IDEM RCG Residential Direct Contact or  
Migration to Groundwater Screening Level

***BOLD/ITALICS*** = results above IDEM RCG Commercial/Industrial Direct  
Contact Screening Level

**BOLD/SHADED** = results above IDEM RCG Excavation Direct Contact  
Screening Level

**Table 1F**  
**Soil Analytical Summary (Radium)**  
Phase II Limited Subsurface Investigation  
Former AEP Tanner's Creek Generating Station  
800 AEP Drive, Lawrenceburg, Indiana  
ATC Project No. 170EM00522

Sample ID	Collected Date	Units	Radium-226	Radium-228
B-1 (0-2)	2/2/2018	pCi/g	2.440 ± 0.561 (0.331) C:NA T:NA	1.930 ± 0.699 (0.461) C:NA T:NA
B-1 (14-16)	2/2/2018	pCi/g	1.674 ± 0.372 (0.142) C:NA T:NA	1.951 ± 0.563 (0.308) C:NA T:NA
B-2 (0-2)	2/2/2018	pCi/g	3.686 ± 0.595 (0.191) C:NA T:NA	2.250 ± 0.651 (0.613) C:NA T:NA
B-2 (14-15)	2/2/2018	pCi/g	1.572 ± 0.395 (0.246) C:NA T:NA	1.612 ± 0.530 (0.705) C:NA T:NA
B-3 (0-2)	1/17/2018	pCi/g	2.974 ± 0.454 (0.190) C:NA T:NA	2.401 ± 0.483 (0.311) C:NA T:NA
B-3 (24-25)	2/2/2018	pCi/g	2.052 ± 0.470 (0.227) C:NA T:NA	2.490 ± 0.869 (0.992) C:NA T:NA
B-4 (0-2)	2/2/2018	pCi/g	3.490 ± 0.629 (0.310) C:NA T:NA	2.384 ± 0.552 (0.450) C:NA T:NA
B-4 (18-20)	2/5/2018	pCi/g	1.614 ± 0.334 (0.201) C:NA T:NA	1.461 ± 0.405 (0.316) C:NA T:NA
B-5 (0-2)	2/2/2018	pCi/g	3.040 ± 0.528 (0.285) C:NA T:NA	2.727 ± 0.616 (0.260) C:NA T:NA
B-5 (16-18)	2/2/2018	pCi/g	2.260 ± 0.502 (0.235) C:NA T:NA	1.997 ± 0.460 (0.342) C:NA T:NA
B-6 (0-2)	2/2/2018	pCi/g	3.651 ± 0.635 (0.232) C:NA T:NA	2.280 ± 0.543 (0.261) C:NA T:NA
B-6 (18-20)	2/2/2018	pCi/g	1.417 ± 0.322 (0.202) C:NA T:NA	1.808 ± 0.432 (0.189) C:NA T:NA
B-7 (0-2)	2/1/2018	pCi/g	3.469 ± 0.595 (0.287) C:NA T:NA	2.187 ± 0.585 (0.279) C:NA T:NA
B-7 (20-22)	2/1/2018	pCi/g	3.199 ± 0.559 (0.215) C:NA T:NA	1.932 ± 0.433 (0.307) C:NA T:NA
B-8 (0-2)	2/2/2018	pCi/g	NA*	NA*
B-8 (8-10)	2/2/2018	pCi/g	NA*	NA*
B-9 (0-2)	2/1/2018	pCi/g	NA*	NA*
B-9 (30-32)	2/1/2018	pCi/g	NA*	NA*
B-10 (0-2)	2/1/2018	pCi/g	NA*	NA*
B-10 (18-20)	2/1/2018	pCi/g	NA*	NA*
B-11 (0-2)	2/1/2018	pCi/g	NA*	NA*
B-11 (32-34)	2/1/2018	pCi/g	NA*	NA*
B-12 (0-2)	2/1/2018	pCi/g	NA*	NA*
B-12 (20-22)	2/1/2018	pCi/g	NA*	NA*
B-13 (0-2)	2/1/2018	pCi/g	NA*	NA*
B-13 (28-30)	2/1/2018	pCi/g	NA*	NA*
B-14 (0-2)	1/29/2018	pCi/g	NA*	NA*
B-14 (28-30)	1/29/2018	pCi/g	NA*	NA*
B-15 (0-2)	1/29/2018	pCi/g	NA*	NA*
B-15 (32-34)	1/29/2018	pCi/g	NA*	NA*
B-16 (0-2)	1/29/2018	pCi/g	NA*	NA*
B-16 (34-36)	1/29/2018	pCi/g	NA*	NA*
B-17 (0-2)	1/31/2018	pCi/g	2.668 ± 0.491 (0.331) C:NA T:NA	3.321 ± 0.754 (0.318) C:NA T:NA
B-17 (32-34)	1/31/2018	pCi/g	2.544 ± 0.515 (0.255) C:NA T:NA	2.868 ± 0.911 (0.738) C:NA T:NA
B-18 (0-2)	1/30/2018	pCi/g	NA*	NA*
B-18 (26-28)	1/30/2018	pCi/g	NA*	NA*
B-19 (0-2)	1/30/2018	pCi/g	NA*	NA*
B-19 (30-32)	1/30/2018	pCi/g	NA*	NA*
B-20 (0-2)	1/30/2018	pCi/g	NA*	NA*
B-20 (28-30)	1/30/2018	pCi/g	NA*	NA*
B-21 (0-2)	1/30/2018	pCi/g	NA*	NA*
B-21 (28-30)	1/30/2018	pCi/g	NA*	NA*
B-22 (0-2)	1/30/2018	pCi/g	NA*	NA*
B-22 (24-26)	1/30/2018	pCi/g	NA*	NA*
B-23 (0-2)	1/31/2018	pCi/g	NA*	NA*
B-23 (10-12)	1/31/2018	pCi/g	NA*	NA*
B-24 (0-2)	1/31/2018	pCi/g	0.848 ± 0.277 (0.172) C:NA T:NA	0.478 ± 0.403 (0.521) C:NA T:NA
B-24 (16-18)	1/31/2018	pCi/g	1.742 ± 0.354 (0.212) C:NA T:NA	1.865 ± 0.443 (0.187) C:NA T:NA
B-25 (0-2)	1/31/2018	pCi/g	1.992 ± 0.469 (0.209) C:NA T:NA	1.404 ± 0.475 (0.303) C:NA T:NA

**Table 1F**  
**Soil Analytical Summary (Radium)**  
Phase II Limited Subsurface Investigation  
Former AEP Tanner's Creek Generating Station  
800 AEP Drive, Lawrenceburg, Indiana  
ATC Project No. 170EM00522

Sample ID	Collected Date	Units	Radium-226	Radium-228
B-25 (10-12)	1/31/2018	pCi/g	1.620 ± 0.342 (0.172) C:NA T:NA	1.654 ± 0.378 (0.252) C:NA T:NA
B-26 (0-2)	1/31/2018	pCi/g	1.579 ± 0.355 (0.197) C:NA T:NA	1.545 ± 0.448 (0.225) C:NA T:NA
B-26 (24-26)	1/31/2018	pCi/g	1.713 ± 0.332 (0.213) C:NA T:NA	2.070 ± 0.536 (0.439) C:NA T:NA
B-27 (0-2)	2/5/2018	pCi/g	3.016 ± 0.467 (0.235) C:NA T:NA	2.065 ± 0.462 (0.305) C:NA T:NA
B-27 (48-50)	2/5/2018	pCi/g	2.663 ± 0.410 (0.263) C:NA T:NA	3.083 ± 0.619 (0.302) C:NA T:NA
B-28 (0-2)	2/6/2018	pCi/g	2.589 ± 0.475 (0.298) C:NA T:NA	3.198 ± 0.651 (0.561) C:NA T:NA
B-28 (28-30)	2/6/2018	pCi/g	1.045 ± 0.289 (0.227) C:NA T:NA	1.275 ± 0.423 (0.253) C:NA T:NA
B-29 (0-2)	2/6/2018	pCi/g	1.863 ± 0.383 (0.165) C:NA T:NA	1.798 ± 0.399 (0.189) C:NA T:NA
B-29 (14-16)	2/6/2018	pCi/g	1.649 ± 0.379 (0.141) C:NA T:NA	1.804 ± 0.456 (0.273) C:NA T:NA
B-30 (0-2)	2/6/2018	pCi/g	4.338 ± 0.694 (0.214) C:NA T:NA	2.431 ± 0.577 (0.325) C:NA T:NA
B-30 (24-25)	2/6/2018	pCi/g	1.517 ± 0.358 (0.171) C:NA T:NA	1.542 ± 0.437 (0.241) C:NA T:NA
B-31 (0-2)	2/5/2018	pCi/g	2.501 ± 0.381 (0.240) C:NA T:NA	2.060 ± 0.395 (0.290) C:NA T:NA
B-31 (38-40)	2/5/2018	pCi/g	1.722 ± 0.365 (0.228) C:NA T:NA	1.864 ± 0.380 (0.366) C:NA T:NA
B-32 (0-2)	2/5/2018	pCi/g	2.237 ± 0.453 (0.213) C:NA T:NA	1.391 ± 0.373 (0.498) C:NA T:NA
B-32 (38-40)	2/5/2018	pCi/g	1.299 ± 0.287 (0.161) C:NA T:NA	1.452 ± 0.348 (0.287) C:NA T:NA
B-33 (0-2)	2/5/2018	pCi/g	3.039 ± 0.476 (0.226) C:NA T:NA	1.737 ± 0.511 (0.549) C:NA T:NA
B-33 (44-45)	2/5/2018	pCi/g	3.118 ± 0.526 (0.204) C:NA T:NA	2.963 ± 0.567 (0.349) C:NA T:NA
B-34 (0-2)	2/6/2018	pCi/g	3.491 ± 0.611 (0.316) C:NA T:NA	3.107 ± 0.732 (0.397) C:NA T:NA
B-34 (36-38)	2/6/2018	pCi/g	0.684 ± 0.204 (0.127) C:NA T:NA	0.595 ± 0.275 (0.245) C:NA T:NA
B-36 (0-2)	2/6/2018	pCi/g	2.869 ± 0.511 (0.241) C:NA T:NA	2.033 ± 0.472 (0.292) C:NA T:NA
B-36 (12-14)	2/6/2018	pCi/g	1.575 ± 0.343 (0.125) C:NA T:NA	1.643 ± 0.364 (0.242) C:NA T:NA
B-37 (0-2)	2/6/2018	pCi/g	3.212 ± 0.534 (0.232) C:NA T:NA	2.062 ± 0.517 (0.320) C:NA T:NA
B-37 (38-40)	2/6/2018	pCi/g	1.094 ± 0.234 (0.183) C:NA T:NA	1.512 ± 0.486 (0.342) C:NA T:NA
B-38 (0-2)	2/6/2018	pCi/g	2.614 ± 0.480 (0.345) C:NA T:NA	2.003 ± 0.471 (0.324) C:NA T:NA
B-38 (38-40)	2/6/2018	pCi/g	1.356 ± 0.335 (0.181) C:NA T:NA	1.757 ± 0.428 (0.265) C:NA T:NA
Dup-1	2/1/2018	pCi/g	NA*	NA*
DUP-2	2/2/2018	pCi/g	2.219 ± 0.577 (0.342) C:NA T:NA	1.654 ± 0.750 (0.755) C:NA T:NA
DUP-3	2/2/2018	pCi/g	NA*	NA*
Dup-4	2/6/2018	pCi/g	0.538 ± 0.164 (0.222) C:NA T:NA	0.438 ± 0.265 (0.294) C:NA T:NA
B-39 (0-2)	4/17/2018	pCi/g	NA*	NA*
B-39 (28-30)	4/17/2018	pCi/g	NA*	NA*
B-40 (0-2)	4/17/2018	pCi/g	NA*	NA*
B-40 (32-34)	4/17/2018	pCi/g	NA*	NA*
B-41 (0-2)	4/17/2018	pCi/g	NA*	NA*
B-41 (24-26)	4/17/2018	pCi/g	NA*	NA*
B-42 (0-2)	4/17/2018	pCi/g	NA*	NA*
B-42 (18-20)	4/17/2018	pCi/g	NA*	NA*
B-43 (0-2)	4/17/2018	pCi/g	NA*	NA*
B-43 (18-20)	4/17/2018	pCi/g	NA*	NA*
B-44 (0-2)	4/17/2018	pCi/g	NA*	NA*
B-44 (18-20)	4/17/2018	pCi/g	NA*	NA*
B-45 (0-2)	4/18/2018	pCi/g	NA*	NA*
B-45 (14-16)	4/18/2018	pCi/g	NA*	NA*
B-46 (0-2)	4/18/2018	pCi/g	NA*	NA*
B-46 (26-28)	4/18/2018	pCi/g	NA*	NA*
B-47 (0-2)	4/18/2018	pCi/g	NA*	NA*
B-47 (26-28)	4/18/2018	pCi/g	NA*	NA*
B-48 (0-2)	4/18/2018	pCi/g	NA*	NA*
B-48 (22-24)	4/18/2018	pCi/g	NA*	NA*

**Table 1F**  
**Soil Analytical Summary (Radium)**  
Phase II Limited Subsurface Investigation  
Former AEP Tanner's Creek Generating Station  
800 AEP Drive, Lawrenceburg, Indiana  
ATC Project No. 170EM00522

Sample ID	Collected Date	Units	Radium-226	Radium-228
B-49 (0-2)	4/18/2018	pCi/g	NA*	NA*
B-49 (26-28)	4/18/2018	pCi/g	NA*	NA*
B-50 (0-2)	4/18/2018	pCi/g	NA*	NA*
B-50 (22-24)	4/18/2018	pCi/g	NA*	NA*
B-51 (0-2)	4/18/2018	pCi/g	NA*	NA*
B-51 (14-16)	4/18/2018	pCi/g	NA*	NA*
B-52 (0-2)	4/18/2018	pCi/g	NA*	NA*
B-52 (30-32)	4/18/2018	pCi/g	NA*	NA*
B-53 (0-2)	4/19/2018	pCi/g	NA*	NA*
B-53 (24-26)	4/19/2018	pCi/g	NA*	NA*
B-54 (0-2)	4/19/2018	pCi/g	NA*	NA*
B-54 (26-28)	4/19/2018	pCi/g	NA*	NA*
B-55 (0-2)	4/19/2018	pCi/g	NA*	NA*
B-55 (30-32)	4/19/2018	pCi/g	NA*	NA*
B-56 (0-2)	4/19/2018	pCi/g	NA*	NA*
B-56 (26-28)	4/19/2018	pCi/g	NA*	NA*
B-57 (0-2)	4/19/2018	pCi/g	NA*	NA*
B-57 (18-20)	4/19/2018	pCi/g	NA*	NA*
B-58 (0-2)	4/19/2018	pCi/g	NA*	NA*
B-58 (18-20)	4/19/2018	pCi/g	NA*	NA*
B-59 (0-2)	4/19/2018	pCi/g	NA*	NA*
B-59 (30-32)	4/19/2018	pCi/g	NA*	NA*
B-60 (0-2)	4/20/2018	pCi/g	NA*	NA*
B-60 (36-38)	4/20/2018	pCi/g	NA*	NA*
B-61 (0-2)	4/20/2018	pCi/g	NA*	NA*
B-61 (22-24)	4/20/2018	pCi/g	NA*	NA*
B-62 (0-2)	4/20/2018	pCi/g	NA*	NA*
B-62 (14-16)	4/20/2018	pCi/g	NA*	NA*
B-63 (0-2)	4/23/2018	pCi/g	NA*	NA*
B-63 (34-36)	4/23/2018	pCi/g	NA*	NA*
B-64 (0-2)	4/23/2018	pCi/g	NA*	NA*
B-64 (40-42)	4/23/2018	pCi/g	NA*	NA*
B-65 (0-2)	4/23/2018	pCi/g	NA*	NA*
B-65 (38-40)	4/23/2018	pCi/g	NA*	NA*
B-66 (0-2)	4/23/2018	pCi/g	NA*	NA*
B-66 (38-40)	4/23/2018	pCi/g	NA*	NA*
B-67 (0-2)	4/23/2018	pCi/g	NA*	NA*
B-67 (20-22)	4/23/2018	pCi/g	NA*	NA*
B-68 (0-2)	4/24/2018	pCi/g	NA*	NA*
B-68 (46-48)	4/24/2018	pCi/g	NA*	NA*
B-69 (0-2)	4/24/2018	pCi/g	NA*	NA*
B-69 (18-20)	4/24/2018	pCi/g	NA*	NA*
B-70 (0-2)	4/24/2018	pCi/g	NA*	NA*
B-70 (24-26)	4/24/2018	pCi/g	NA*	NA*
B-71 (0-2)	4/24/2018	pCi/g	NA*	NA*
B-71 (42-44)	4/24/2018	pCi/g	NA*	NA*
B-72 (0-2)	4/24/2018	pCi/g	NA*	NA*
B-72 (46-48)	4/24/2018	pCi/g	NA*	NA*
B-73 (0-2)	4/24/2018	pCi/g	NA*	NA*

**Table 1F**  
**Soil Analytical Summary (Radium)**  
Phase II Limited Subsurface Investigation  
Former AEP Tanner's Creek Generating Station  
800 AEP Drive, Lawrenceburg, Indiana  
ATC Project No. 170EM00522

Sample ID	Collected Date	Units	Radium-226	Radium-228
B-73 (34-36)	4/24/2018	pCi/g	NA*	NA*
B-74 (0-2)	4/25/2018	pCi/g	NA*	NA*
B-74 (34-36)	4/25/2018	pCi/g	NA*	NA*
B-75 (0-2)	4/25/2018	pCi/g	NA*	NA*
B-75 (10-12)	4/25/2018	pCi/g	NA*	NA*
DUP-1	4/18/2018	pCi/g	NA*	NA*
DUP-2	4/19/2018	pCi/g	NA*	NA*
DUP-3	4/23/2018	pCi/g	NA*	NA*
DUP-4	4/24/2018	pCi/g	NA*	NA*

Results are presented in picocuries per gram (pCi/g).  
Samples were analyzed using US EPA SW-846 Method 901.1  
NA = Not analyzed  
ND = Not detected





**Table 1G**  
**Soil Analytical Summary (PAHs)**  
Phase II Limited Subsurface Investigation  
Former AEP Tanner's Creek Generating Station  
800 AEP Drive, Lawrenceburg, Indiana  
ATC Project No. 170EM00522

Sample ID	Collected Date	Units	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene
<b>Residential</b>			<b>5000</b>	<b>NE</b>	<b>25000</b>	<b>15</b>	<b>1.5</b>	<b>15</b>	<b>NE</b>	<b>150</b>	<b>1500</b>	<b>1.5</b>	<b>3400</b>	<b>3400</b>	<b>15</b>	<b>250</b>	<b>340</b>	<b>53</b>	<b>NE</b>	<b>2500</b>
<b>Com/Ind</b>			<b>45000</b>	<b>NE</b>	<b>100000</b>	<b>210</b>	<b>21</b>	<b>210</b>	<b>NE</b>	<b>2100</b>	<b>21000</b>	<b>21</b>	<b>30000</b>	<b>30000</b>	<b>210</b>	<b>390</b>	<b>3000</b>	<b>170</b>	<b>NE</b>	<b>23000</b>
<b>Excavation</b>			<b>100000</b>	<b>NE</b>	<b>100000</b>	<b>12000</b>	<b>500</b>	<b>12000</b>	<b>NE</b>	<b>100000</b>	<b>100000</b>	<b>1200</b>	<b>68000</b>	<b>68000</b>	<b>12000</b>	<b>390</b>	<b>6800</b>	<b>3100</b>	<b>NE</b>	<b>51000</b>
<b>Soil MTG Residential</b>			<b>110</b>	<b>NE</b>	<b>1200</b>	<b>2.1</b>	<b>4.7</b>	<b>60</b>	<b>NE</b>	<b>590</b>	<b>1800</b>	<b>19</b>	<b>1800</b>	<b>110</b>	<b>200</b>	<b>1.2</b>	<b>3.7</b>	<b>0.11</b>	<b>NE</b>	<b>260</b>
B-53 (24-26)	4/19/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-54 (0-2)	4/19/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0089	0.0094	ND	ND	ND
B-54 (26-28)	4/19/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-55 (0-2)	4/19/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-55 (30-32)	4/19/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-56 (0-2)	4/19/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-56 (26-28)	4/19/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-57 (0-2)	4/19/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0085	0.0094	0.0081	ND	ND
B-57 (18-20)	4/19/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-58 (0-2)	4/19/2018	mg/kg	ND	ND	ND	0.0060	0.0066	0.0081	0.0061	0.0063	0.0096	ND	0.0140	ND	ND	0.0149	0.0154	0.0120	0.0118	0.0112
B-58 (18-20)	4/19/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DUP-2			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-59 (0-2)	4/19/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0342	ND	ND	ND	ND	ND	ND	ND
B-59 (30-32)	4/19/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-60 (0-2)	4/20/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	0.0065	ND	0.0093	ND	ND	0.0111	0.0152	0.0101	0.0154	0.0072
B-60 (36-38)	4/20/2018	mg/kg	ND	ND	0.0097	0.0290	0.0315	0.0264	0.0216	0.0198	0.0337	ND	0.0501	ND	0.0176	0.0176	0.0195	0.0193	0.0300	0.0468
B-61 (0-2)	4/20/2018	mg/kg	ND	ND	0.0096	0.0310	0.0328	0.0380	0.0244	0.0247	0.0426	0.0073	0.0565	ND	0.0196	0.0292	0.0324	0.0253	0.0444	0.0512
B-61 (22-24)	4/20/2018	mg/kg	0.0102	ND	0.0185	0.0330	0.0269	0.0278	0.0169	0.0287	0.0460	0.0059	0.0757	0.0120	0.0151	0.0933	0.114	0.0871	0.0592	0.0641
B-62 (0-2)	4/20/2018	mg/kg	0.0211	0.0117	0.0527	0.124	0.0955	0.125	0.0564	0.0656	0.148	0.0272	0.277	0.0273	0.0478	0.414	0.537	<b>0.354</b>	0.327	0.223
B-62 (14-16)	4/20/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-63 (0-2)	4/23/2018	mg/kg	ND	ND	0.0069	0.0068	ND	ND	ND	ND	0.0090	ND	0.0145	ND	ND	0.182	0.241	<b>0.182</b>	0.0581	0.0120
B-63 (34-36)	4/23/2018	mg/kg	ND	ND	0.0062	0.0164	0.0178	0.0143	0.0117	0.0158	0.0203	ND	0.0354	ND	0.010	0.0127	0.0148	0.0149	0.0227	0.0316
B-64 (0-2)	4/23/2018	mg/kg	0.0094	ND	0.0219	0.0269	0.0163	0.0129	0.0078	0.0112	0.0336	ND	0.0534	0.0065	ND	0.0687	0.0904	0.0299	0.174	0.0492
B-64 (40-42)	4/23/2018	mg/kg	0.0194	0.0327	0.104	0.135	0.128	0.144	0.0938	0.107	0.183	0.0294	0.340	0.0652	0.0819	0.281	0.395	<b>0.422</b>	0.380	0.248
B-65 (0-2)	4/23/2018	mg/kg	0.0085	0.0056	0.0194	0.0304	0.0204	0.0150	0.0123	0.0159	0.0416	ND	0.0542	0.0098	0.0073	0.265	0.341	<b>0.259</b>	0.211	0.0472
B-65 (38-40)	4/23/2018	mg/kg	ND	ND	ND	0.0171	0.0170	0.0188	0.0124	0.0127	0.0217	ND	0.0334	ND	0.0105	0.0196	0.0193	0.0238	0.0259	0.0273
B-66 (0-2)	4/23/2018	mg/kg	ND	0.0115	0.0075	0.0361	0.0376	0.0386	0.0277	0.0374	0.0422	0.0092	0.0511	ND	0.0233	0.0343	0.0365	0.0229	0.0380	0.0429
B-66 (38-40)	4/23/2018	mg/kg	ND	ND	0.0067	0.0166	0.0159	0.0176	0.0134	0.0157	0.0211	ND	0.0293	ND	0.0117	ND	0.0066	0.0084	0.0164	0.0213
DUP-3			ND	ND	ND	0.0138	0.0128	0.0170	0.0105	0.0102	0.0176	ND	0.0306	ND	0.0089	0.0082	0.0094	0.0112	0.0174	0.0226
B-67 (0-2)	4/23/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0275	0.0273

**Table 1G**  
**Soil Analytical Summary (PAHs)**  
Phase II Limited Subsurface Investigation  
Former AEP Tanner's Creek Generating Station  
800 AEP Drive, Lawrenceburg, Indiana  
ATC Project No. 170EM00522

Sample ID	Collected Date	Units	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene
<b>Residential</b>			<b>5000</b>	<b>NE</b>	<b>25000</b>	<b>15</b>	<b>1.5</b>	<b>15</b>	<b>NE</b>	<b>150</b>	<b>1500</b>	<b>1.5</b>	<b>3400</b>	<b>3400</b>	<b>15</b>	<b>250</b>	<b>340</b>	<b>53</b>	<b>NE</b>	<b>2500</b>
<b>Com/Ind</b>			<b>45000</b>	<b>NE</b>	<b>100000</b>	<b>210</b>	<b>21</b>	<b>210</b>	<b>NE</b>	<b>2100</b>	<b>21000</b>	<b>21</b>	<b>30000</b>	<b>30000</b>	<b>210</b>	<b>390</b>	<b>3000</b>	<b>170</b>	<b>NE</b>	<b>23000</b>
<b>Excavation</b>			<b>100000</b>	<b>NE</b>	<b>100000</b>	<b>12000</b>	<b>500</b>	<b>12000</b>	<b>NE</b>	<b>100000</b>	<b>100000</b>	<b>1200</b>	<b>68000</b>	<b>68000</b>	<b>12000</b>	<b>390</b>	<b>6800</b>	<b>3100</b>	<b>NE</b>	<b>51000</b>
<b>Soil MTG Residential</b>			<b>110</b>	<b>NE</b>	<b>1200</b>	<b>2.1</b>	<b>4.7</b>	<b>60</b>	<b>NE</b>	<b>590</b>	<b>1800</b>	<b>19</b>	<b>1800</b>	<b>110</b>	<b>200</b>	<b>1.2</b>	<b>3.7</b>	<b>0.11</b>	<b>NE</b>	<b>260</b>
B-67 (20-22)	4/23/2018	mg/kg	ND	ND	ND	ND	ND	0.0060	ND	ND	0.0069	ND	0.0092	ND	ND	ND	0.0060	ND	0.0068	0.0081
B-68 (0-2)	4/24/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-68 (46-48)	4/24/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-69 (0-2)	4/24/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0515	0.0556	0.0553	0.0161	ND
B-69 (18-20)	4/24/2018	mg/kg	0.0627	0.0185	0.0414	0.0419	0.0391	0.0345	0.0296	0.0295	0.0569	0.0076	0.0960	0.0753	0.0178	0.285	0.372	<b>0.206</b>	0.309	0.0920
B-70 (0-2)	4/24/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	0.0059	ND	ND	ND	ND	0.0096	0.0095	0.0073	0.0089	ND
B-70 (24-26)	4/24/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0760	0.0812	0.0497	0.0238	ND
DUP-4			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0496	0.0385	ND	ND	ND
B-71 (0-2)	4/24/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	0.0764	ND	0.332	ND	ND	0.0724	0.0784	ND	0.109	0.213
B-71 (42-44)	4/24/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-72 (0-2)	4/24/2018	mg/kg	0.0547	ND	0.0764	0.0359	0.0192	0.0296	0.0131	0.0154	0.0419	ND	0.175	0.0455	0.0105	0.0457	0.0616	0.0374	0.254	0.103
B-72 (46-48)	4/24/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-73 (0-2)	4/24/2018	mg/kg	0.0143	ND	0.0377	0.0396	0.0322	0.0312	0.0178	0.0315	0.0442	0.0057	0.141	0.0144	0.0168	0.0157	0.0169	0.0185	0.119	0.0915
B-73 (34-36)	4/24/2018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-74 (0-2)	4/25/2018	mg/kg	0.948	0.0945	2.60	<b>7.28</b>	<b>5.54</b>	6.57	3.63	5.44	8.68	<b>1.64</b>	24.9	1.42	3.61	0.339	0.387	<b>0.436</b>	23.1	15.7
B-74 (34-36)	4/25/2018	mg/kg	ND	ND	0.0119	0.0281	0.0273	0.0294	0.0210	0.0257	0.0388	0.0074	0.0541	ND	0.0180	0.0514	0.0566	0.0467	0.0507	0.0440
B-75 (0-2)	4/25/2018	mg/kg	0.0546	ND	0.245	0.536	0.502	0.960	0.412	0.953	0.748	0.147	1.82	0.0644	0.336	0.119	0.116	0.106	1.50	1.21
B-75 (10-12)	4/25/2018	mg/kg	ND	ND	0.0302	0.0433	0.0366	0.0441	ND	0.0298	0.0531	ND	0.110	ND	ND	0.280	0.114	0.0751	0.143	0.0959

Note:  
IDEM RCG = Indiana Department of Environmental Management Remediation Closure Guide (IDEM RCG) (Screening Levels updated March 2018)  
Polycyclic Aromatic Hydrocarbons (PAHs) were analyzed using EPA SW-846 Method 8270SIM  
Constituents not detected above laboratory detection limits are not listed in the table.  
ND = Not Detected  
NA = Not Analyzed for that constituent  
**BOLD** = results above IDEM RCG Residential Screening Levels and/or Soil Migration to Groundwater Screening Levels  
**BOLD/ITALICS** = results above IDEM RCG Commercial / Industrial Direct Exposure Level  
**BOLD/SHADED** = results above IDEM RCG Excavation Worker Direct Exposure Level

Table 1H  
 Soil Analytical Summary (6/2018 Sampling Event, VOCs)  
 Phase II Limited Subsurface Investigation  
 Former AEP Tanner's Creek Generating Station  
 800 AEP Drive, Lawrenceburg, Indiana  
 ATC Project No. 170EM00522

Sample ID	Acetone	Isopropylbenzene (Cumene)	n-Butylbenzene	n-Propylbenzene	p-Isopropyltoluene	sec-Butylbenzene	Toluene	Trichlorofluoromethane
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
<b>Residential</b>	<b>85000</b>	<b>270</b>	<b>110</b>	<b>260</b>	<b>NE</b>	<b>150</b>	<b>820</b>	<b>1200</b>
<b>Soil MTG Residential</b>	<b>57</b>	<b>15</b>	<b>64</b>	<b>25</b>	<b>NE</b>	<b>120</b>	<b>14</b>	<b>66</b>
<b>Com/Ind</b>	<b>100000</b>	<b>270</b>	<b>110</b>	<b>260</b>	<b>NE</b>	<b>150</b>	<b>820</b>	<b>1200</b>
<b>Excavation</b>	<b>100000</b>	<b>270</b>	<b>110</b>	<b>260</b>	<b>NE</b>	<b>150</b>	<b>820</b>	<b>1200</b>
B-76 (0-2)	ND	ND	ND	ND	ND	ND	ND	ND
B-76 (48-50)	ND	ND	ND	ND	ND	ND	ND	ND
B-77 (0-2)	ND	ND	ND	ND	ND	ND	ND	ND
B-77 (32-34)	ND	ND	ND	ND	ND	ND	ND	ND
B-78 (0-2)	ND	ND	ND	ND	ND	ND	ND	ND
B-78 (48-50)	ND	ND	ND	ND	ND	ND	ND	ND
B-79 (0-2)	ND	ND	ND	ND	ND	ND	ND	ND
B-79 (6-8)	ND	ND	ND	ND	ND	ND	ND	ND
B-80 (0-2)	0.216	ND	ND	ND	0.0115	ND	0.0075	0.0072
B-80 (34-36)	0.119	ND	ND	ND	ND	ND	ND	ND
B-81 (0-2)	ND	ND	ND	ND	ND	ND	ND	ND
B-81 (16-18)	ND	ND	ND	ND	ND	ND	ND	ND
B-82 (0-2)	0.274	ND	ND	ND	ND	ND	ND	ND
B-82 (6-8)	ND	0.587	1.18	1.18	ND	0.824	ND	ND
B-83 (0-2)	ND	ND	ND	ND	ND	ND	ND	ND
B-83 (8-10)	ND	ND	ND	ND	ND	ND	ND	ND
B-84 (0-2)	ND	ND	ND	ND	ND	ND	ND	ND
B-84 (26-28)	ND	ND	ND	ND	ND	ND	ND	ND
B-85 (0-2)	ND	ND	ND	ND	ND	ND	ND	ND
B-85 (20-22)	ND	ND	ND	ND	ND	ND	ND	ND
B-86 (0-2)	ND	ND	ND	ND	ND	ND	ND	ND
B-86 (24-26)	ND	ND	ND	ND	ND	ND	ND	ND
B-87 (40-42)	ND	ND	ND	ND	ND	ND	ND	ND
B-87 (5-6)	ND	ND	ND	ND	ND	ND	ND	ND
B-88 (0-2)	0.166	ND	ND	ND	ND	ND	ND	ND
B-88(40-42)	ND	ND	ND	ND	ND	ND	ND	ND
DUP-1	0.166	ND	ND	ND	ND	ND	ND	ND

Notes:

Samples were analyzed using US EPA SW-846 Methods 8260

IDEM RCG = Indiana Department of Environmental Management Remediation Closure Guide (IDEM RCG) (Screening Levels updated March 2018)

ND = Not detected

**BOLD** = results above IDEM RCG Residential Direct Contact and/or Migration to Groundwater Screening Level(s)

**BOLD/ITALICS** = results above IDEM Commercial/Industrial Direct Contact Screening Level

**BOLD/SHADED** = results above IDEM RCG Excavation Direct Contact Screening Level

Table 1H  
 Soil Analytical Summary (6/2018 Sampling Event, Metals)  
 Phase II Limited Subsurface Investigation  
 Former AEP Tanner's Creek Generating Station  
 800 AEP Drive, Lawrenceburg, Indiana  
 ATC Project No. 170EM00522

Sample ID	Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Mercury
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
<b>Residential</b>	<b>9.5</b>	<b>21000</b>	<b>99</b>	<b>NE</b>	<b>400</b>	<b>550</b>	<b>3.1</b>
<b>Soil MTG Residential</b>	<b>5.9</b>	<b>1700</b>	<b>7.5</b>	<b>1000000</b>	<b>270</b>	<b>5.3</b>	<b>2.1</b>
<b>Com/Ind</b>	<b>30</b>	<b>100000</b>	<b>980</b>	<b>NE</b>	<b>800</b>	<b>5800</b>	<b>3.1</b>
<b>Excavation</b>	<b>920</b>	<b>100000</b>	<b>1900</b>	<b>NE</b>	<b>1000</b>	<b>9800</b>	<b>3.1</b>
B-76 (0-2)	<b>10.4</b>	156	ND	21.8	22.2	ND	ND
B-76 (48-50)	<b>9.1</b>	141	ND	31.4	14.1	ND	ND
B-77 (0-2)	<b>10.1</b>	168	ND	21.5	16.3	ND	ND
B-77 (32-34)	<b>9.0</b>	132	ND	21.4	17.6	ND	ND
B-78 (0-2)	<b>10.4</b>	178	ND	21.6	18.5	ND	ND
B-78 (48-50)	<b>8.8</b>	125	ND	24.1	13.2	ND	ND
B-79 (0-2)	<b>30.9</b>	399	1.6	59.6	103	<b>104</b>	ND
B-79 (6-8)	<b>7.6</b>	90.6	ND	31.3	17.6	<b>12.6</b>	ND
B-80 (0-2)	<b>6.4</b>	110	ND	13.1	50.4	<b>7.3</b>	ND
B-80 (34-36)	<b>6.6</b>	79.2	ND	19.6	15.3	2.5	ND
B-81 (0-2)	<b>7.7</b>	264	ND	107	108	<b>14.7</b>	ND
B-81 (16-18)	4.3	72.0	ND	6.7	5.5	ND	ND
B-82 (0-2)	<b>14.2</b>	170	1.0	49.6	153	<b>16.0</b>	ND
B-82 (6-8)	5.3	87.2	ND	13.0	10.9	ND	ND
B-83 (0-2)	<b>23.4</b>	162	ND	11.3	7.3	<b>5.9</b>	ND
B-83 (8-10)	<b>13.4</b>	120	ND	16.3	3.8	ND	ND
B-84 (0-2)	<b>10.4</b>	57.5	ND	10.4	7.6	ND	ND
B-84 (26-28)	1.3	103	ND	15.9	ND	ND	ND
B-85 (0-2)	<b>11.9</b>	256	ND	15.3	3.8	ND	ND
B-85 (20-22)	5.5	82.0	ND	12.8	9.3	ND	ND
B-86 (0-2)	<b>56.9</b>	262	1.3	59.3	65.4	4.7	ND
B-86 (24-26)	<b>11.9</b>	77.2	ND	24.4	9.6	1.5	ND
B-87 (40-42)	<b>7.0</b>	117	ND	14.8	9.7	ND	ND
B-87 (5-6)	5.6	116	ND	15.0	12.4	ND	1.0
B-88 (0-2)	<b>9.7</b>	128	ND	59.7	31.0	ND	ND
B-88(40-42)	<b>7.5</b>	119	ND	17.2	10.5	ND	ND
DUP-1	<b>6.2</b>	69.8	ND	16.2	22.7	1.3	ND

Notes:

Samples were analyzed using US EPA SW-846 Methods 6010B and 7470

IDEM RCG = Indiana Department of Environmental Management Remediation Closure Guide (IDEM RCG) (Screening Levels updated March 2018)

ND = Not detected

**BOLD** = results above IDEM RCG Residential Direct Contact and/or Migration to Groundwater Screening Level(s)

**BOLD/ITALICS** = results above IDEM Commercial/Industrial Direct Contact Screening Level

**BOLD/SHADED** = results above IDEM RCG Excavation Direct Contact Screening Level

Table 1H  
 Soil Analytical Summary (6/2018 Sampling Event, PCBs)  
 Phase II Limited Subsurface Investigation  
 Former AEP Tanner's Creek Generating Station  
 800 AEP Drive, Lawrenceburg, Indiana  
 ATC Project No. 170EM00522

Sample ID	PCB-1242 (Aroclor 1242)	PCB-1254 (Aroclor 1254)	PCB-1260 (Aroclor 1260)
Units	mg/kg	mg/kg	mg/kg
<b>Residential</b>	<b>3.2</b>	<b>1.7</b>	<b>3.4</b>
<b>Soil MTG Residential</b>	<b>.24</b>	<b>.41</b>	<b>1.1</b>
<b>Com/Ind</b>	<b>9.5</b>	<b>9.7</b>	<b>9.9</b>
<b>Excavation</b>	<b>560</b>	<b>33</b>	<b>570</b>
B-76 (0-2)	ND	ND	ND
B-76 (48-50)	ND	ND	ND
B-77 (0-2)	ND	ND	ND
B-77 (32-34)	ND	ND	ND
B-78 (0-2)	ND	ND	ND
B-78 (48-50)	ND	ND	ND
B-79 (0-2)	<b>0.683</b>	ND	ND
B-79 (6-8)	ND	ND	ND
B-80 (0-2)	ND	ND	ND
B-80 (34-36)	ND	ND	ND
B-81 (0-2)	<b>0.298</b>	0.131	0.160
B-81 (16-18)	ND	ND	ND
B-82 (0-2)	<b>0.574</b>	0.300	0.467
B-82 (6-8)	ND	ND	ND
B-83 (0-2)	ND	ND	ND
B-83 (8-10)	ND	ND	ND
B-84 (0-2)	ND	ND	ND
B-84 (26-28)	ND	ND	ND
B-85 (0-2)	ND	ND	ND
B-85 (20-22)	ND	ND	ND
B-86 (0-2)	<b>0.292</b>	0.121	ND
B-86 (24-26)	ND	ND	ND
B-87 (40-42)	ND	ND	ND
B-87 (5-6)	0.180	ND	ND
B-88 (0-2)	0.121	ND	ND
B-88(40-42)	ND	ND	ND
DUP-1	0.131	ND	ND

Notes:

Samples were analyzed using US EPA SW-846 Methods 8082

IDEM RCG = Indiana Department of Environmental Management Remediation Closure Guide (IDEM RCG) (Screening Levels updated March 2018)

ND = Not detected

**BOLD** = results above IDEM RCG Residential Direct Contact and/or Migration to Groundwater Screening Level(s)

**BOLD/ITALICS** = results above IDEM Commercial/Industrial Direct Contact Screening Level

**BOLD/SHADED** = results above IDEM RCG Excavation Direct Contact Screening Level

Table 1H  
 Soil Analytical Summary (6/2018 Sampling Event, PAHs)  
 Phase II Limited Subsurface Investigation  
 Former AEP Tanner's Creek Generating Station  
 800 AEP Drive, Lawrenceburg, Indiana  
 ATC Project No. 170EM00522

Sample ID	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
<b>Residential</b>	<b>250</b>	<b>340</b>	<b>5000</b>	<b>NE</b>	<b>25000</b>	<b>15</b>	<b>1.5</b>	<b>15</b>	<b>NE</b>	<b>150</b>	<b>1500</b>	<b>1.5</b>	<b>3400</b>	<b>3400</b>	<b>15</b>	<b>53</b>	<b>NE</b>	<b>2500</b>
<b>Soil MTG Residential</b>	<b>1.2</b>	<b>3.7</b>	<b>110</b>	<b>NE</b>	<b>1200</b>	<b>2.1</b>	<b>4.7</b>	<b>60</b>	<b>NE</b>	<b>590</b>	<b>1800</b>	<b>19</b>	<b>1800</b>	<b>110</b>	<b>200</b>	<b>.11</b>	<b>NE</b>	<b>260</b>
<b>Com/Ind</b>	<b>390</b>	<b>3000</b>	<b>45000</b>	<b>NE</b>	<b>100000</b>	<b>210</b>	<b>21</b>	<b>210</b>	<b>NE</b>	<b>2100</b>	<b>21000</b>	<b>21</b>	<b>30000</b>	<b>30000</b>	<b>210</b>	<b>170</b>	<b>NE</b>	<b>23000</b>
<b>Excavation</b>	<b>390</b>	<b>6800</b>	<b>100000</b>	<b>NE</b>	<b>100000</b>	<b>12000</b>	<b>500</b>	<b>12000</b>	<b>NE</b>	<b>100000</b>	<b>100000</b>	<b>1200</b>	<b>68000</b>	<b>68000</b>	<b>12000</b>	<b>3100</b>	<b>NE</b>	<b>51000</b>
B-76 (0-2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-76 (48-50)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-77 (0-2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-77 (32-34)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-78 (0-2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-78 (48-50)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-79 (0-2)	ND	ND	ND	ND	ND	0.0284	ND	ND	ND	ND	0.0314	ND	0.0675	ND	ND	ND	0.0645	0.0621
B-79 (6-8)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0564	ND	ND	ND	0.0679	0.0433
B-80 (0-2)	0.577	0.800	0.230	ND	0.310	0.315	0.245	0.179	0.134	0.257	0.309	0.0535	0.928	0.207	0.129	<b>0.881</b>	1.24	0.711
B-80 (34-36)	0.0311	0.0424	ND	ND	0.0097	0.0122	0.0089	ND	ND	0.0105	0.0131	ND	0.0346	ND	ND	0.0629	0.0358	0.0308
B-81 (0-2)	0.0943	0.125	0.0741	ND	0.187	0.348	0.281	0.200	0.173	0.300	0.363	0.0825	0.873	0.0655	0.149	0.104	0.538	0.689
B-81 (16-18)	0.287	0.0949	1.73	0.433	1.29	0.0511	0.0326	0.0242	0.0171	0.0322	0.0732	0.0080	0.314	2.77	0.0143	ND	3.52	0.478
B-82 (0-2)	0.143	0.195	0.519	ND	0.714	1.29	1.10	0.860	0.621	1.10	1.35	0.313	3.47	0.360	0.572	<b>0.219</b>	2.57	2.53
B-82 (6-8)	<b>6.23</b>	<b>10.1</b>	0.373	0.122	0.393	0.0167	0.0132	0.0096	0.0078	0.0140	0.0251	ND	0.0889	0.581	0.0081	ND	2.49	0.310
B-83 (0-2)	0.235	0.331	ND	ND	0.0135	0.0222	0.0156	0.0118	0.0135	0.0139	0.0274	0.0056	0.0379	0.0074	0.0077	<b>0.225</b>	0.125	0.0363
B-83 (8-10)	0.143	0.166	0.0380	ND	0.0565	0.0674	0.0351	ND	ND	ND	0.0757	ND	0.110	0.0384	ND	0.0903	0.319	0.125
B-84 (0-2)	0.0151	0.0189	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0123	0.0116	ND
B-84 (26-28)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-85 (0-2)	0.0519	0.0738	ND	ND	ND	0.0282	ND	ND	ND	ND	0.0306	ND	0.0638	ND	ND	0.0534	0.0790	0.0534
B-85 (20-22)	0.0191	0.0230	ND	ND	0.0065	0.0090	0.0070	ND	ND	0.0083	0.0105	ND	0.0232	ND	ND	0.0182	0.0287	0.0198
B-86 (0-2)	0.101	0.130	ND	ND	ND	0.0403	ND	ND	ND	0.0313	0.0467	ND	0.0904	ND	ND	0.0803	0.144	0.0744
B-86 (24-26)	0.0248	0.0361	0.0140	0.0067	0.0192	0.0352	0.0381	0.0302	0.0205	0.0398	0.0466	0.0102	0.0530	0.0122	0.0182	0.0259	0.0867	0.0437
B-87 (40-42)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-87 (5-6)	0.226	0.276	ND	ND	0.0482	0.116	0.0543	0.0785	0.0336	0.0610	0.142	ND	0.469	ND	ND	<b>0.170</b>	0.327	0.351
B-88 (0-2)	ND	ND	ND	ND	0.0347	0.156	0.152	0.111	0.143	0.139	0.217	0.0449	0.454	ND	0.0689	ND	0.132	0.343
B-88(40-42)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DUP-1	0.218	0.284	0.397	ND	0.539	1.19	0.956	0.754	0.542	0.997	1.28	0.273	2.67	0.258	0.489	<b>0.469</b>	2.23	2.22

Notes:  
 Samples were analyzed using US EPA SW-846 Methods 8270 SIM  
 IDEM RCG = Indiana Department of Environmental Management Remediation Closure Guide (IDEM RCG)  
 (Screening Levels updated March 2018)  
 ND = Not detected  
**BOLD** = results above IDEM RCG Residential Direct Contact and/or Migration to Groundwater Screening Level(s)  
**BOLD/ITALICS** = results above IDEM Commercial/Industrial Direct Contact Screening Level  
**BOLD/SHADED** = results above IDEM RCG Excavation Direct Contact Screening Level

Table 11  
 Soil Arsenic Concentrations Exceeding IDEM RCG Com/Ind Screening Levels  
 Phase II Limited Subsurface Investigation  
 Former AEP Tanner's Creek Generating Station  
 800 AEP Drive, Lawrenceburg, Indiana  
 ATC Project No. 170EM00522

Analyte	Sample Identification and Sample Depth (feet)																	
	B-12 (0-2)	B-13 (0-2)	B-14 (0-2)	B-15 (0-2)	B-18 (0-2)	B-20 (0-2)	B-22 (0-2)	B-27 (0-2)	B-30 (0-2)	B-30 (24-25)	B-32 (0-2)	B-33 (0-2)	B-33 (44-45)	B-34 (0-2)	B-37 (38-40)	B-51 (0-2)	B-79 (0-2)	B-86 (0-2)
Arsenic (mg/kg)	<b>31.8</b>	<b>35.8</b>	<b>62.5</b>	<b>34.5</b>	<b>38.0</b>	<b>37.2</b>	<b>38.2</b>	<b>60.6</b>	<b>105.0</b>	<b>31.6</b>	<b>41.0</b>	<b>45.9</b>	<b>31.4</b>	<b>30.4</b>	<b>42.7</b>	<b>31.9</b>	<b>30.9</b>	<b>56.9</b>

Notes:

Samples were analyzed using US EPA SW-846 Method 7471

IDEM RCG Com/Ind = Indiana Department of Environmental Management Remediation Closure Guide Commercial/Industrial Screening Levels

***Bold/Italics*** = results above IDEM RCG Commercial/Industrial Screening Level of 30 mg/kg



**Table 2A**  
**Groundwater Analytical Summary (VOCs)**  
Phase II Limited Subsurface Investigation  
Former AEP Tanner's Creek Generating Station  
800 AEP Drive, Lawrenceburg, Indiana  
ATC Project No. 170EM00522

Sample ID	Collected Date	Units	1,1-Dichloroethane	1,1-Dichloroethene	1,1,1-Trichloroethane
<b>Groundwater Tap Residential</b>			<b>28</b>	<b>7</b>	<b>200</b>
<b>Vapor Exposure Groundwater Residential</b>			<b>130</b>	<b>300</b>	<b>13000</b>
<b>Vapor Exposure Groundwater Com/Industrial</b>			<b>550</b>	<b>1300</b>	<b>54000</b>
B-3	2/9/2018	ug/L	ND	ND	ND
B-6	2/9/2018	ug/L	ND	ND	ND
B-7	2/12/2018	ug/L	ND	ND	ND
B-9	2/12/2018	ug/L	ND	ND	ND
B-11	2/12/2018	ug/L	ND	ND	ND
B-13	2/12/2018	ug/L	ND	ND	ND
B-14	2/13/2018	ug/L	ND	ND	ND
B-15	2/13/2018	ug/L	ND	ND	ND
B-16	2/13/2018	ug/L	ND	ND	ND
B-19	2/13/2018	ug/L	ND	ND	ND
B-21	2/14/2018	ug/L	ND	ND	ND
B-23	2/14/2018	ug/L	ND	ND	ND
B-24	2/15/2018	ug/L	ND	ND	ND
B-26	2/15/2018	ug/L	ND	ND	ND
B-27	2/20/2018	ug/L	ND	ND	ND
B-34	2/20/2018	ug/L	ND	ND	ND
B-36	2/15/2018	ug/L	ND	ND	ND
B-38	2/19/2018	ug/L	ND	ND	ND
DUP			ND	ND	ND

TMW-40	4/25/2018	ug/L	ND	ND	ND
TMW-43	4/25/2018	ug/L	ND	ND	ND
TMW-45	4/25/2018	ug/L	ND	ND	ND
TMW-47	4/25/2018	ug/L	ND	ND	ND
TMW-50	4/25/2018	ug/L	ND	ND	ND
TMW-52	4/24/2018	ug/L	ND	ND	ND
TMW-55	4/26/2018	ug/L	ND	ND	ND
TMW-56	4/26/2018	ug/L	ND	ND	ND
TMW-57	4/24/2018	ug/L	ND	ND	ND
TMW-59	4/26/2018	ug/L	ND	ND	ND
TMW-63	4/27/2018	ug/L	ND	ND	ND
TMW-66	4/27/2018	ug/L	ND	ND	ND
TMW-67	4/30/2018	ug/L	ND	ND	ND
DUP-1			ND	ND	ND
TMW-71	4/26/2018	ug/L	<b>76.5</b>	<b>19.9</b>	33.5
TMW-72	4/26/2018	ug/L	ND	ND	ND
TMW-74	5/1/2018	ug/L	ND	ND	ND

Note:

IDEM RCG = Indiana Department of Environmental Management Remediation Closure Guide (IDEM RCG)  
(Screening Levels updated March 2018)

Volatile Organic Compounds (VOCs) were analyzed using EPA SW-846 Method 8260B

ND = Not Detected

**BOLD** = results above IDEM RCG Groundwater Tap Residential Screening Level

***BOLD/ITALICS*** = results above IDEM RCG Vapor Exposure - Residential

**SHADED** = results above IDEM RCG Vapor Exposure - Commercial/Industrial

**Table 2B**  
**Groundwater/Surface Water Analytical Summary (Metals)**  
Phase II Limited Subsurface Investigation  
Former AEP Tanner's Creek Generating Station  
800 AEP Drive, Lawrenceburg, Indiana  
ATC Project No. 170EM00522

Sample ID	Collected Date	Units	Analysis	Antimony	Arsenic	Barium	Boron	Cadmium	Chromium	Lead	Lithium	Manganese	Molybdenum	Nickel	Selenium
<b>Groundwater Tap Residential</b>				<b>6</b>	<b>10</b>	<b>2000</b>	<b>4000</b>	<b>5</b>	<b>100</b>	<b>15</b>	<b>40</b>	<b>NE</b>	<b>100</b>	<b>390</b>	<b>50</b>
B-3	2/9/2018	ug/L	Total	ND	ND	43.3	406	ND	ND	ND	29.4	610	ND	ND	ND
B-6	2/9/2018	ug/L	Total	ND	ND	22.2	102	ND	ND	ND	ND	20.9	ND	ND	ND
B-7	2/12/2018	ug/L	Total	ND	ND	57.3	529	ND	ND	ND	<b>65.9</b>	737	ND	50.9	ND
B-9	2/12/2018	ug/L	Total	NA*	ND	52.4	NA*	ND	ND	ND	NA*	NA*	NA*	NA*	ND
B-11	2/12/2018	ug/L	Total	NA*	<b>105</b>	184	NA*	ND	ND	ND	NA*	NA*	NA*	NA*	ND
B-13	2/12/2018	ug/L	Total	NA*	<b>73.6</b>	79.8	NA*	ND	ND	ND	NA*	NA*	NA*	NA*	ND
B-14	2/13/2018	ug/L	Total	NA*	<b>128</b>	99.6	NA*	ND	ND	ND	NA*	NA*	NA*	NA*	ND
B-15	2/13/2018	ug/L	Total	NA*	<b>113</b>	156	NA*	ND	ND	ND	NA*	NA*	NA*	NA*	ND
B-16	2/13/2018	ug/L	Total	NA*	<b>54.4</b>	333	NA*	ND	ND	ND	NA*	NA*	NA*	NA*	ND
B-19	2/13/2018	ug/L	Total	NA*	<b>92.4</b>	225	NA*	ND	ND	ND	NA*	NA*	NA*	NA*	ND
B-21	2/14/2018	ug/L	Total	NA*	<b>129</b>	384	NA*	ND	30.2	<b>21.4</b>	NA*	NA*	NA*	NA*	ND
B-23	2/14/2018	ug/L	Total	NA*	ND	89.8	NA*	ND	ND	ND	NA*	NA*	NA*	NA*	ND
B-24	2/15/2018	ug/L	Total	ND	ND	108	126	ND	ND	ND	ND	3830	ND	ND	ND
B-26	2/15/2018	ug/L	Total	ND	ND	428	508	ND	ND	ND	ND	2240	ND	14.3	ND
B-27	2/20/2018	ug/L	Total	<b>6.6</b>	<b>139</b>	137	<b>10900</b>	ND	ND	ND	<b>117</b>	23.2	<b>477</b>	13.6	ND
B-34	2/20/2018	ug/L	Total	ND	ND	85.1	524	ND	ND	ND	27.1	1420	62.1	ND	ND
B-36	2/15/2018	ug/L	Total	ND	<b>122</b>	56.3	<b>4260</b>	ND	ND	ND	36.8	273	<b>305</b>	ND	ND
B-38	2/19/2018	ug/L	Total	ND	<b>82.1</b>	75.7	1450	ND	ND	ND	33.8	623	<b>183</b>	ND	ND
DUP			Total	ND	<b>81.6</b>	77.1	1410	ND	ND	ND	33.9	610	<b>179</b>	ND	ND
TMW-40	4/25/2018	ug/L	Total	NA*	ND	105	498	ND	ND	ND	ND	NA*	ND	NA*	ND
TMW-43	4/25/2018	ug/L	Total	NA*	ND	48.7	ND	ND	ND	ND	ND	NA*	ND	NA*	ND
TMW-45	4/25/2018	ug/L	Total	NA*	ND	31.7	ND	ND	ND	ND	ND	NA*	ND	NA*	ND
TMW-47	4/25/2018	ug/L	Total	NA*	ND	93.4	ND	ND	ND	ND	ND	NA*	ND	NA*	ND
TMW-50	4/25/2018	ug/L	Total	NA*	ND	102	ND	ND	ND	ND	ND	NA*	ND	NA*	ND
TMW-52	4/24/2018	ug/L	Total	NA*	ND	111	281	ND	ND	ND	ND	NA*	ND	NA*	ND
TMW-55	4/26/2018	ug/L	Total	NA*	ND	95.6	654	ND	ND	12.8	ND	NA*	ND	NA*	ND
TMW-56	4/26/2018	ug/L	Total	NA*	ND	74.6	ND	ND	ND	ND	ND	NA*	ND	NA*	ND
TMW-57	4/24/2018	ug/L	Total	NA*	ND	85.9	ND	ND	ND	ND	ND	NA*	ND	NA*	ND
TMW-59	4/26/2018	ug/L	Total	NA*	ND	141	ND	ND	ND	ND	ND	NA*	ND	NA*	ND
TMW-63	4/27/2018	ug/L	Total	NA*	<b>13.1</b>	225	166	ND	ND	13.9	ND	NA*	17.4	NA*	ND
			Dissolved	NA*	ND	128	161	ND	ND	ND	ND	NA*	17.5	NA*	ND
TMW-66	4/27/2018	ug/L	Total	NA*	<b>81.7</b>	611	ND	ND	39.1	<b>62.8</b>	29.6	NA*	19.5	NA*	ND
			Dissolved	NA*	ND	240	ND	ND	ND	ND	ND	NA*	22.0	NA*	ND
TMW-67	4/30/2018	ug/L	Total	NA*	ND	75.2	412	ND	ND	ND	ND	NA*	11.2	NA*	ND
			Dissolved	NA*	ND	66.3	431	ND	ND	ND	ND	NA*	11.5	NA*	ND
DUP-1	4/30/2018	ug/L	Total	NA*	ND	73.0	406	ND	ND	ND	ND	NA*	10.8	NA*	ND
			Dissolved	NA*	ND	68.4	437	ND	ND	ND	ND	NA*	12.4	NA*	ND
TMW-71	4/26/2018	ug/L	Total	NA*	ND	230	ND	ND	ND	ND	ND	NA*	ND	NA*	ND
			Dissolved	NA*	<b>12.7</b>	284	ND	ND	ND	ND	ND	NA*	14.9	NA*	ND
TMW-72	4/26/2018	ug/L	Total	NA*	<b>28.4</b>	602	304	ND	63.8	<b>41.5</b>	<b>57.0</b>	NA*	16.1	NA*	ND
			Dissolved	NA*	ND	139	323	ND	ND	ND	ND	NA*	11.8	NA*	ND
TMW-74	5/1/2018	ug/L	Total	NA*	<b>124</b>	<b>3380</b>	121	<b>24.3</b>	244	<b>195</b>	<b>226</b>	NA*	18.7	NA*	ND
			Dissolved	NA*	<b>12.9</b>	281	ND	ND	ND	ND	ND	NA*	15.2	NA*	ND
SW-1	5/2/2018	ug/L	Total	NA*	<b>11.4</b>	117	1920	ND	ND	ND	ND	NA*	<b>133</b>	NA*	25.2
SW-2	5/4/2018	ug/L	Total	NA*	ND	31.7	ND	ND	ND	ND	ND	NA*	ND	NA*	ND

Note:

IDEM RCG = Indiana Department of Environmental Management Remediation Closure Guide (IDEM RCG) (Screening Levels updated March 2018)

Samples were analyzed using EPA SW-846 Methods 6010B, 7196, and 7470.

Constituents not detected above laboratory detection limits are not listed in the table.

ND = Not Detected

NA = Not Analyzed for that constituent

**Bold = Concentrations above their respective Remediation Closure Guide (RCG) Tap Screening Levels (updated 2018).**

**Table 2C**  
**Groundwater Analytical Summary (Fluoride)**  
Phase II Limited Subsurface Investigation  
Former AEP Tanner's Creek Generating Station  
800 AEP Drive, Lawrenceburg, Indiana  
ATC Project No. 170EM00522

Sample ID	Collected Date	Units	Fluoride
<b>Groundwater Tap Residential</b>			<b>800</b>
B-3	2/9/2018	mg/L	0.23
B-6	2/9/2018	mg/L	0.20
B-7	2/12/2018	mg/L	0.58
B-9	2/12/2018	mg/L	NA*
B-11	2/12/2018	mg/L	NA*
B-13	2/12/2018	mg/L	NA*
B-14	2/13/2018	mg/L	NA*
B-15	2/13/2018	mg/L	NA*
B-16	2/13/2018	mg/L	NA*
B-19	2/13/2018	mg/L	NA*
B-21	2/14/2018	mg/L	NA*
B-23	2/14/2018	mg/L	NA*
B-24	2/15/2018	mg/L	0.46
B-26	2/15/2018	mg/L	0.26
B-27	2/20/2018	mg/L	0.22
B-34	2/20/2018	mg/L	0.68
B-36	2/15/2018	mg/L	1.1
B-38	2/19/2018	mg/L	1.4
DUP			1.4
TMW-40	4/25/2018	mg/L	NA*
TMW-43	4/25/2018	mg/L	NA*
TMW-45	4/25/2018	mg/L	NA*
TMW-47	4/25/2018	mg/L	NA*
TMW-50	4/25/2018	mg/L	NA*
TMW-52	4/24/2018	mg/L	NA*
TMW-55	4/26/2018	mg/L	NA*
TMW-56	4/26/2018	mg/L	NA*

**Table 2C**  
**Groundwater Analytical Summary (Fluoride)**  
Phase II Limited Subsurface Investigation  
Former AEP Tanner's Creek Generating Station  
800 AEP Drive, Lawrenceburg, Indiana  
ATC Project No. 170EM00522

Sample ID	Collected Date	Units	Fluoride
<b>Groundwater Tap Residential</b>			<b>800</b>
TMW-57	4/24/2018	mg/L	NA*
TMW-59	4/26/2018	mg/L	NA*
TMW-63	4/27/2018	mg/L	NA*
TMW-66	4/27/2018	mg/L	NA*
TMW-67	4/30/2018	mg/L	NA*
DUP-1			NA*
TMW-71	4/26/2018	mg/L	NA*
TMW-72	4/26/2018	mg/L	NA*
TMW-74	5/1/2018	mg/L	NA*
SW-1	5/2/2018	mg/L	NA*
SW-2	5/4/2018	mg/L	NA*

IDEM RCG = Indiana Department of Environmental Management Remediation Closure Guide (IDEM RCG) (Screening Levels updated March 2018)

NA = Not Analyzed

Samples were analyzed using US EPA SW-846 Method 4500FC

**Table 2D**  
**Groundwater Analytical Summary (Radium)**  
Phase II Limited Subsurface Investigation  
Former AEP Tanner's Creek Generating Station  
800 AEP Drive, Lawrenceburg, Indiana  
ATC Project No. 170EM00522

Sample ID	Collected Date	Units	Radium-226	Radium-228	Total Radium
B-3	2/9/2018	pCi/L	0.267 ± 0.406 (0.699) C:NA T:90%	0.905 ± 0.428 (0.736) C:86% T:80%	1.17 ± 0.834 (1.435)
B-6	2/9/2018	pCi/L	0.347 ± 0.378 (0.595) C:NA T:95%	0.321 ± 0.329 (0.682) C:88% T:85%	0.668 ± 0.707 (1.277)
B-7	2/12/2018	pCi/L	0.529 ± 0.329 (0.324) C:NA T:103%	0.734 ± 0.355 (0.595) C:85% T:88%	1.26 ± 0.684 (0.919)
B-9	2/12/2018	pCi/L	NA*	NA*	NA*
B-11	2/12/2018	pCi/L	NA*	NA*	NA*
B-13	2/12/2018	pCi/L	NA*	NA*	NA*
B-14	2/13/2018	pCi/L	NA*	NA*	NA*
B-15	2/13/2018	pCi/L	NA*	NA*	NA*
B-16	2/13/2018	pCi/L	NA*	NA*	NA*
B-19	2/13/2018	pCi/L	NA*	NA*	NA*
B-21	2/14/2018	pCi/L	NA*	NA*	NA*
B-23	2/14/2018	pCi/L	NA*	NA*	NA*
B-24	2/15/2018	pCi/L	0.120 ± 0.409 (0.789) C:NA T:86%	0.529 ± 0.441 (0.890) C:73% T:81%	0.649 ± 0.850 (1.679)
B-26	2/15/2018	pCi/L	0.557 ± 0.560 (0.873) C:NA T:87%	0.638 ± 0.461 (0.895) C:71% T:68%	1.195 ± 1.021 (1.768)
B-27	2/20/2018	pCi/L	0.337 ± 0.398 (0.626) C:NA T:102%	0.604 ± 0.308 (0.514) C:80% T:87%	0.941 ± 0.706 (1.14)
B-34	2/20/2018	pCi/L	0.716 ± 0.569 (0.739) C:NA T:94%	0.550 ± 0.337 (0.621) C:78% T:87%	1.266 ± 0.906 (1.360)
B-36	2/15/2018	pCi/L	-0.063 ± 0.411 (0.890) C:NA T:80%	0.726 ± 0.416 (0.762) C:72% T:82%	0.663 ± 0.827 (1.652)
B-38	2/19/2018	pCi/L	0.296 ± 0.412 (0.688) C:NA T:97%	0.332 ± 0.318 (0.648) C:77% T:81%	0.628 ± 0.730 (1.336)
DUP			0.540 ± 0.562 (0.836) C:NA T:92%	0.664 ± 0.370 (0.665) C:81% T:80%	1.204 ± 0.932 (1.501)
TMW-40	4/25/2018	pCi/L	NA*	NA*	NA*
TMW-43	4/25/2018	pCi/L	NA*	NA*	NA*
TMW-45	4/25/2018	pCi/L	NA*	NA*	NA*
TMW-47	4/25/2018	pCi/L	NA*	NA*	NA*
TMW-50	4/25/2018	pCi/L	NA*	NA*	NA*
TMW-52	4/24/2018	pCi/L	NA*	NA*	NA*
TMW-55	4/26/2018	pCi/L	NA*	NA*	NA*
TMW-56	4/26/2018	pCi/L	NA*	NA*	NA*
TMW-57	4/24/2018	pCi/L	NA*	NA*	NA*
TMW-59	4/26/2018	pCi/L	NA*	NA*	NA*
TMW-63	4/27/2018	pCi/L	NA*	NA*	NA*
TMW-66	4/27/2018	pCi/L	NA*	NA*	NA*
TMW-67	4/30/2018	pCi/L	NA*	NA*	NA*
DUP-1			NA*	NA*	NA*
TMW-71	4/26/2018	pCi/L	NA*	NA*	NA*
TMW-72	4/26/2018	pCi/L	NA*	NA*	NA*
TMW-74	5/1/2018	pCi/L	NA*	NA*	NA*
SW-1	5/2/2018	pCi/L	NA*	NA*	NA*
SW-2	5/4/2018	pCi/L	NA*	NA*	NA*

Results are presented in picocuries per liter (pCi/L).

NA = Not Analyzed

Samples were analyzed using US EPA SW-846 Method 901.1

**Table 2E**  
**Lawrenceburg / Aurora Wellfield Raw Water Analytical Data**  
Phase II Limited Subsurface Investigation  
Former AEP Tanner's Creek Generating Station  
800 AEP Drive, Lawrenceburg, Indiana  
ATC Project No. 170EM00522

Well ID	Collected Date	Units	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chloride	Chromium	Cobalt	Fluoride	Lead	Lithium	Molybdenum	Selenium	Sulfate	Thallium	Mercury
<b>Groundwater Tap Residential</b>			<b>6</b>	<b>10</b>	<b>2000</b>	<b>4</b>	<b>4000</b>	<b>5</b>	<b>NE</b>	<b>NE</b>	<b>100</b>	<b>6</b>	<b>800</b>	<b>15</b>	<b>40</b>	<b>100</b>	<b>50</b>	<b>NE</b>	<b>2</b>	<b>2</b>
LMS Well	3/13/2018	ug/L	<3.0	<3.0	30	<0.5	40	<0.5	72400	24000	<10	<10	307	<2.0	<10	<10	<3.0	39000	<1.0	<0.2
Aurora Well	3/13/2018	ug/L	<3.0	<3.0	44	<0.5	1000	<0.5	100000	33000	<10	<10	247	<2.0	<10	<10	<3.0	110000	<1.0	<0.2

Note:

IDEM RCG = Indiana Department of Environmental Management Remediation Closure Guide (IDEM RCG) (Screening Levels updated March 2018)

Samples were analyzed using EPA Methods 300.0 Rev 2.1, SM 4500-F C-97, SM 2540C-97, 200.7 Rev. 4.4, 200.8 Rev. 5.4, and 245.1 Rev. 3.0.

**Bold = Concentrations above their respective Remediation Closure Guide (RCG) Tap Screening Levels (updated 2018).**

**Table 2F  
Groundwater Analytical Summary (6/2018 Sampling Event)**

Phase II Limited Subsurface Investigation  
Former AEP Tanner's Creek Generating Station  
800 AEP Drive, Lawrenceburg, Indiana  
ATC Project No. 170EM00522

	Arsenic	Barium	Barium, Dissolved	Cadmium	Chromium	Lead	Manganese	Manganese, Dissolved	Molybdenum, Dissolved	Nickel	Nickel, Dissolved	Selenium	Zinc	Zinc, Dissolved	Acenaphthene	Anthracene	Fluorene	Fluoride
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
IDEM Screening Groundwater Tap Residential	<b>10</b>	<b>2000</b>	<b>2000</b>	<b>5</b>	<b>100</b>	<b>15</b>	<b>430</b>	<b>430</b>	<b>100</b>	<b>390</b>	<b>390</b>	<b>50</b>	<b>6000</b>	<b>6000</b>	<b>530</b>	<b>1800</b>	<b>290</b>	<b>800</b>
B-77	ND	150	139	ND	ND	ND	<b>3210</b>	<b>3950</b>	12.3	16.8	14.8	ND	120	101	ND	ND	ND	190
B-79	ND	64.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	<b>137</b>	ND	ND	ND	ND	ND	ND
B-80	<b>62.7</b>	1550	ND	3.0	<b>162</b>	<b>178</b>	ND	ND	ND	ND	ND	<b>287</b>	ND	ND	ND	ND	ND	ND
B-81	ND	103	ND	ND	ND	10.1	ND	ND	ND	ND	ND	40.3	ND	ND	1.1	0.49	1.5	ND
B-83	ND	107	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-85	ND	317	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-87	ND	124	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-88	ND	214	ND	ND	15.4	<b>37.0</b>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dup-1	ND	106	ND	ND	ND	ND	ND	ND	ND	ND	ND	39.7	ND	ND	ND	0.33	1.1	ND

Notes:

IDEM RCG = Indiana Department of Environmental Management Remediation Closure Guide (IDEM RCG) (Screening Levels updated March 2018)

Samples were analyzed using EPA SW-846 Methods 6010B, and 7470.

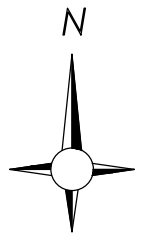
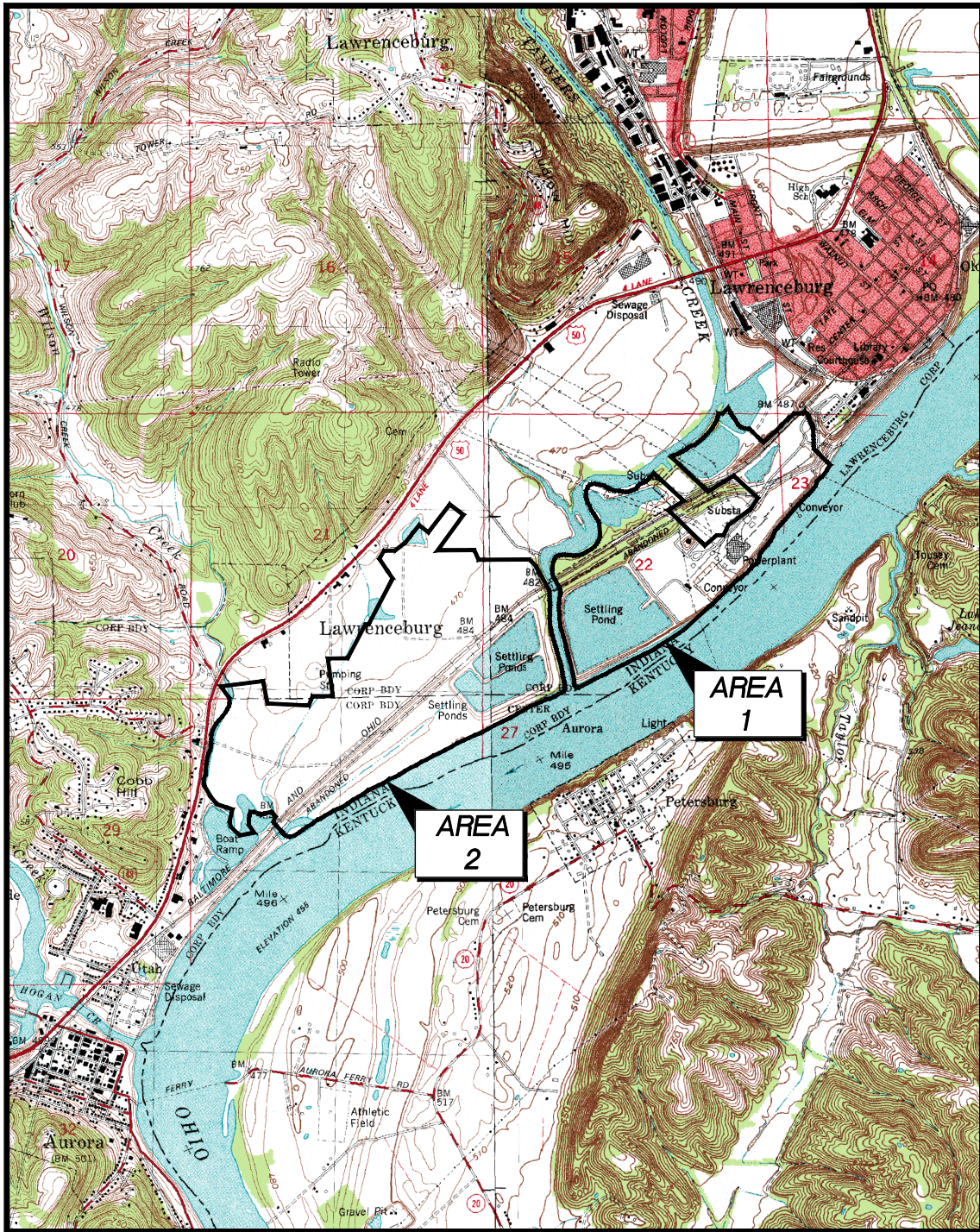
Constituents not detected above laboratory detection limits are not listed in the table.

ND = Not Detected

**Bold = Concentrations above their respective Remediation Closure Guide (RCG) Tap Screening Levels (updated 2018).**



# Figures



### VICINITY MAP

PHASE II ENVIRONMENTAL SITE ASSESSMENT  
 800 AEP DRIVE  
 LAWRENCEBURG, INDIANA

Project Number:  
170EM00522  
 Drawing File:  
SEE LOWER LEFT

Date:  
5/18

Scale:  
1"=3,000'

Drn. By:  
JG  
 Ckd. By:  
JC  
 App'd By:



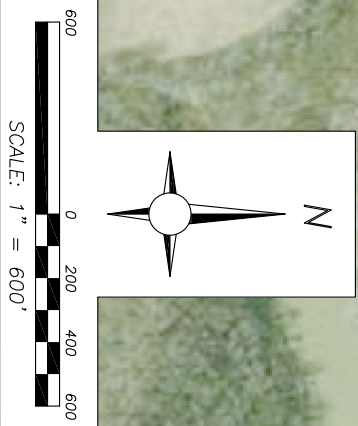
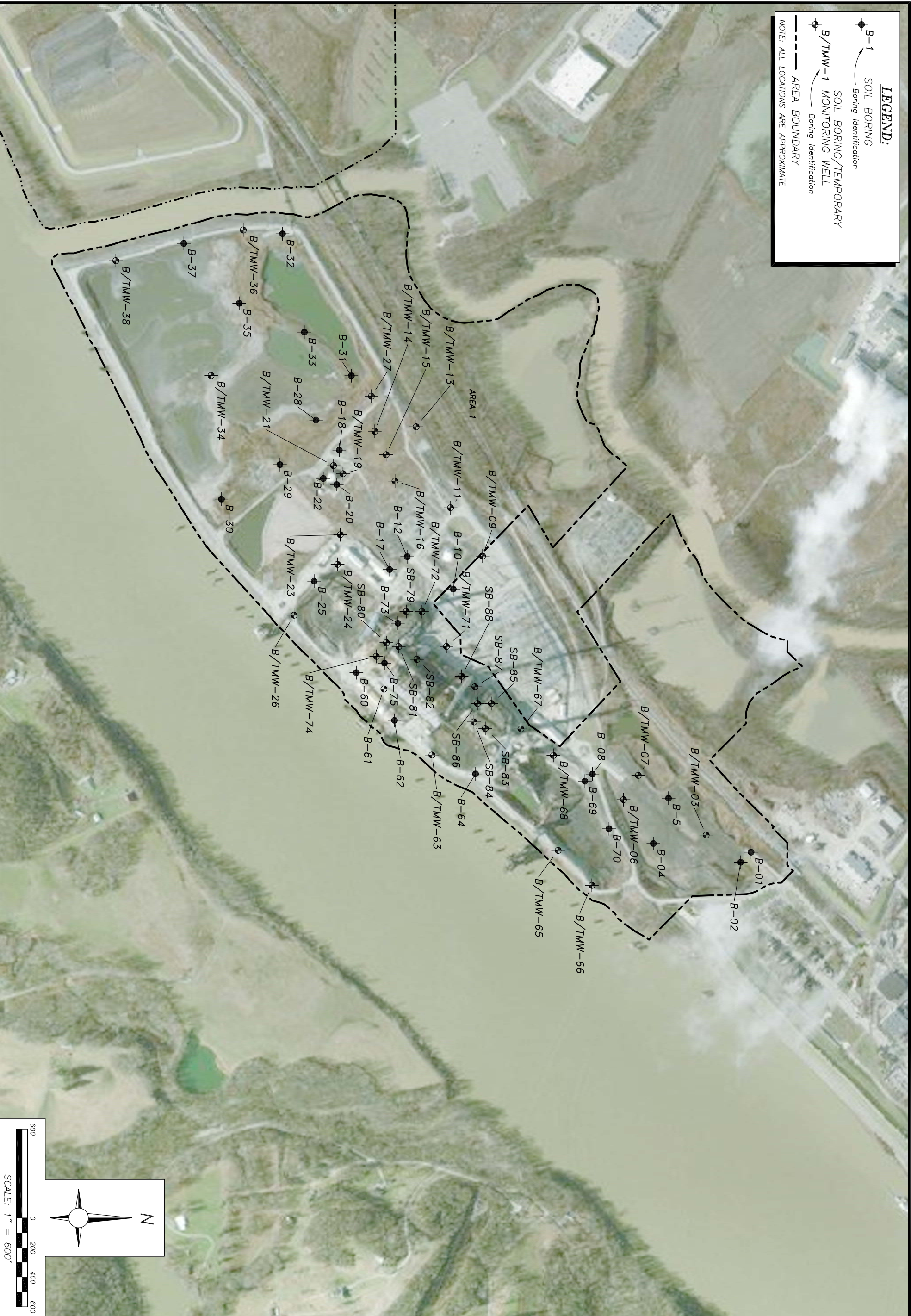
Figure:  
**1**



**LEGEND:**

- B-1 SOIL BORING  
Boring Identification
- B/TMW-1 SOIL BORING/TEMPORARY MONITORING WELL  
Boring Identification
- AREA BOUNDARY




NOTE: ALL LOCATIONS ARE APPROXIMATE



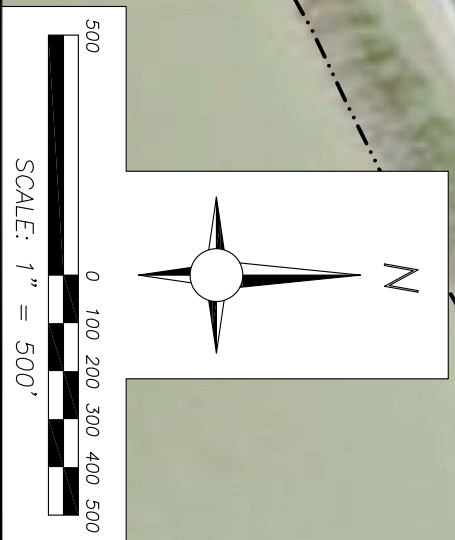
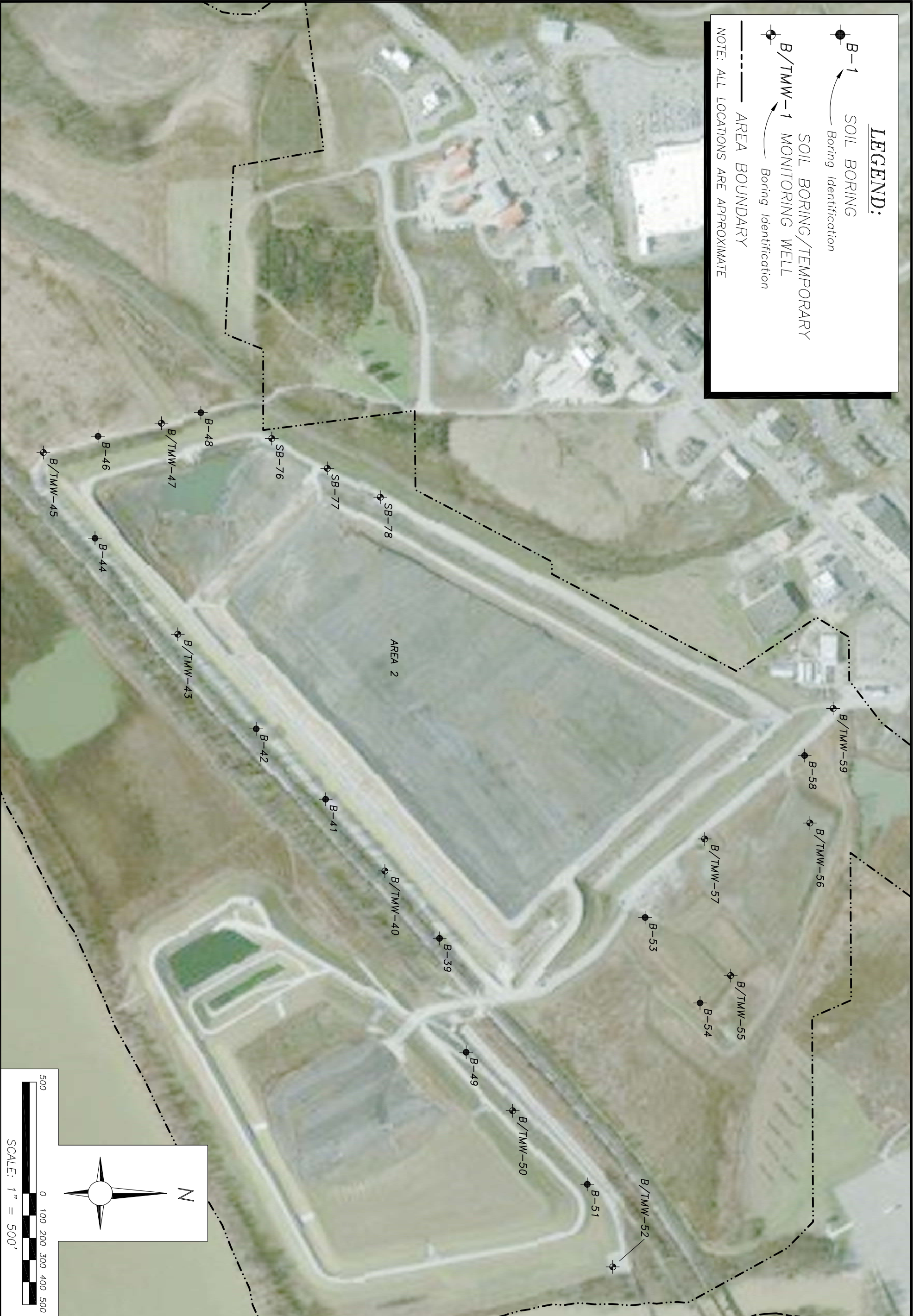
<p><b>SITE PLAN</b> <b>AREA 1</b> PHASE II ENVIRONMENTAL SITE ASSESSMENT TANNERS CREEK 800 AEP DRIVE LAWRENCEBURG, INDIANA</p>	<p>Date: 5/18</p> <p>Scale: AS SHOWN</p> <p>Figure: 2</p>	<p>Project Number: 170EM00522</p>	<p>Drn. By: JG</p>	
		<p>Drawing File: SEE LOWER LEFT</p>	<p>Ckd. By: JB</p>	
				<p>App'd By:</p>
				<p>Ckd. Date:</p>



**LEGEND:**

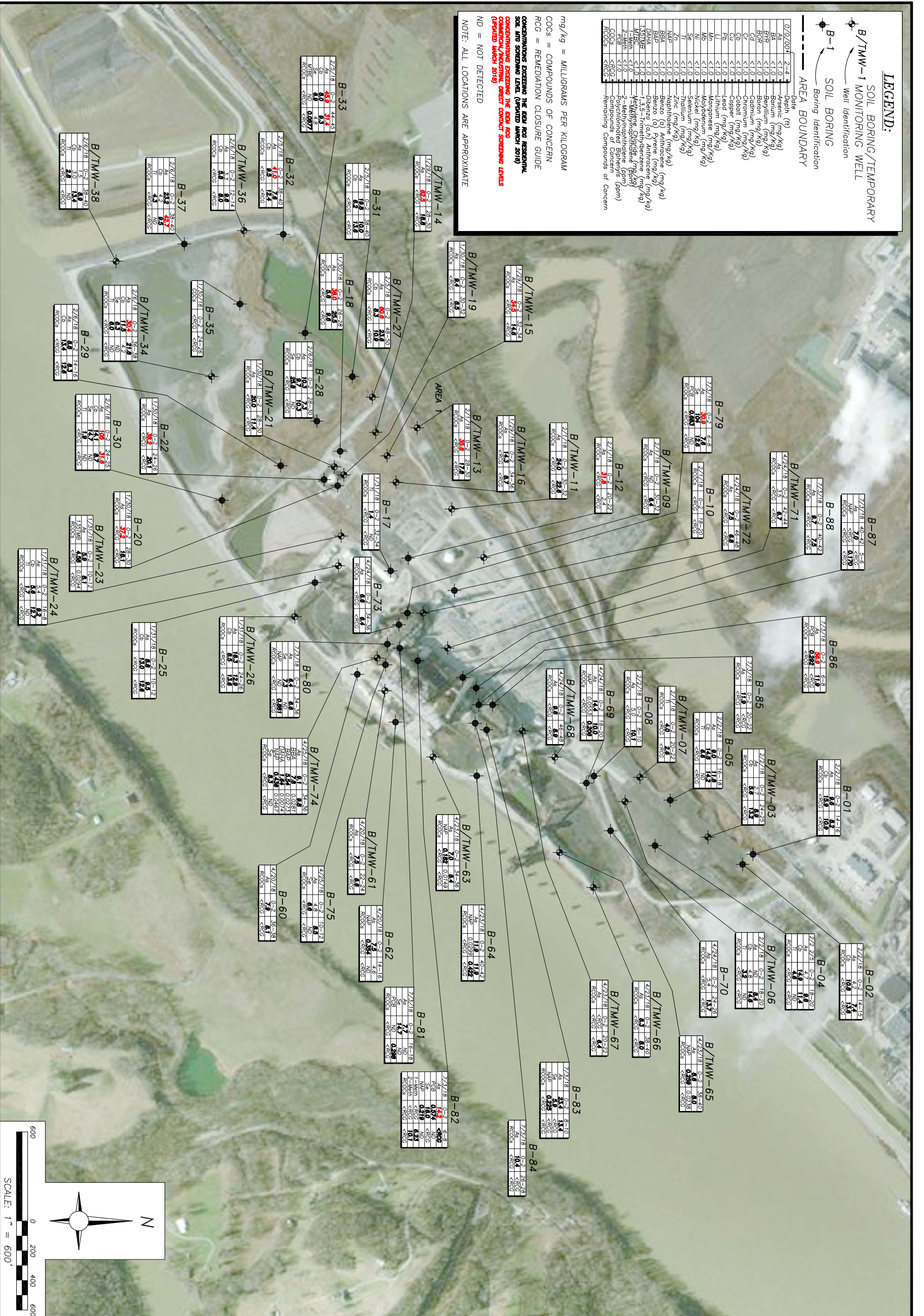
-  **B-1** SOIL BORING  
Boring Identification
-  **B/TMW-1** SOIL BORING/TEMPORARY MONITORING WELL  
Boring Identification
-  AREA BOUNDARY

NOTE: ALL LOCATIONS ARE APPROXIMATE



<p><b>SITE PLAN</b> <b>AREA 2</b> PHASE II ENVIRONMENTAL SITE ASSESSMENT TANNERS CREEK 800 AEP DRIVE LAWRENCEBURG, INDIANA</p>	Date: 5/18	Project Number: 170EM00522	Drn. By: JG
	Scale: AS SHOWN	Drawing File: SEE LOWER LEFT	Ckd. By: JB
	Figure: 3		
			App'd By:
			Ckd. Date:





<p><b>SOIL ANALYTICAL MAP          AREA 1          PHASE II ENVIRONMENTAL SITE ASSESSMENT          TANNERS CREEK          800 AEP DRIVE          LAWRENCEBURG, INDIANA</b></p>		<p>Project Number: 170EM00522</p> <p>Drawing File: SEE LOWER LEFT</p>	<p>Drn. By: JG</p> <p>Ckd. By: JB</p> <p>App'd By:</p> <p>Ckd. Date:</p>
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**LEGEND:**

SOIL BORING/TEMPORARY B/TMW-1 MONITORING WELL

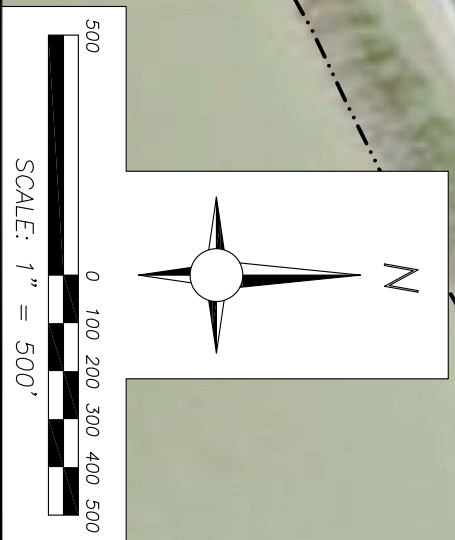
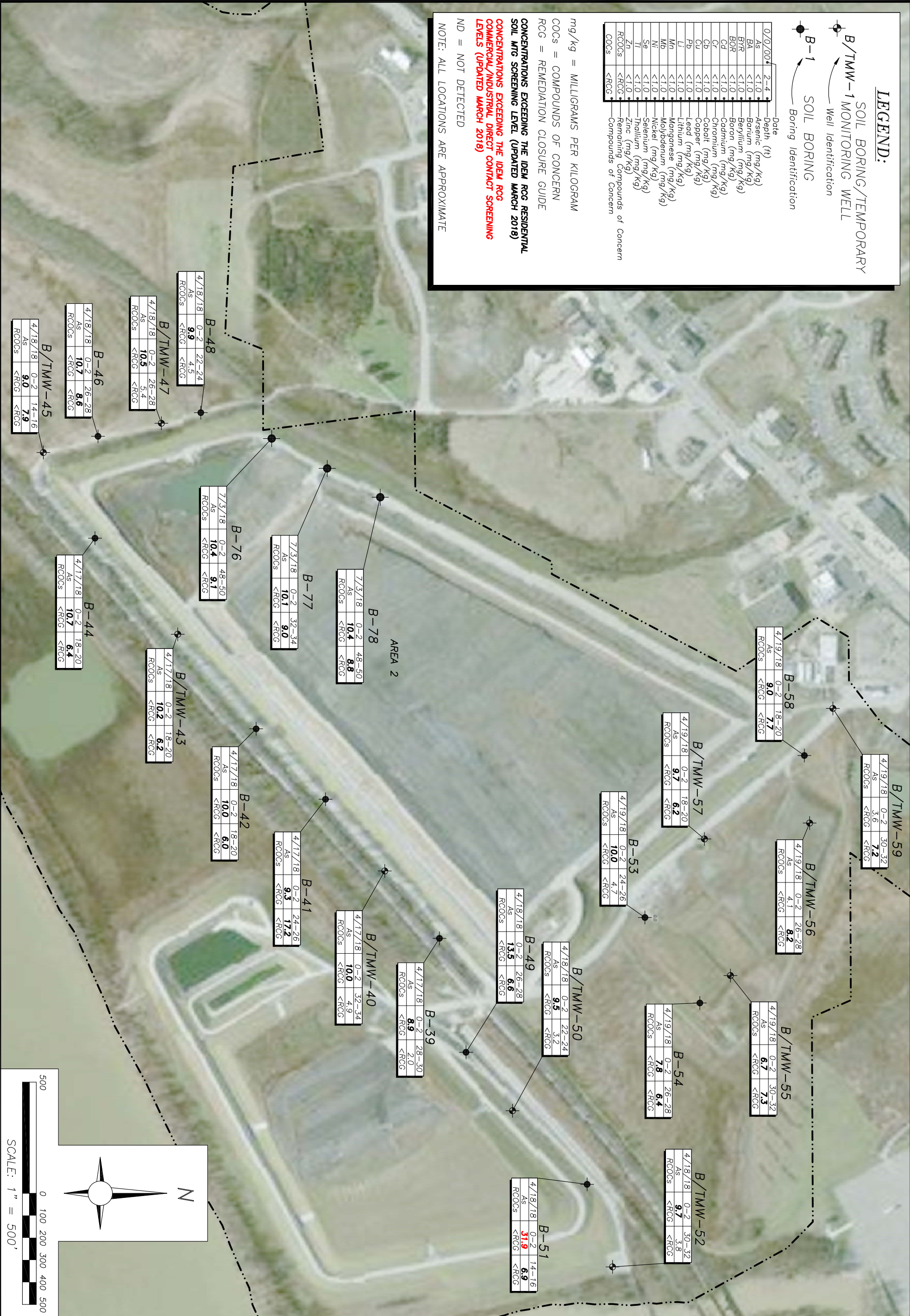
Well Identification

B-1 SOIL BORING

Boring Identification

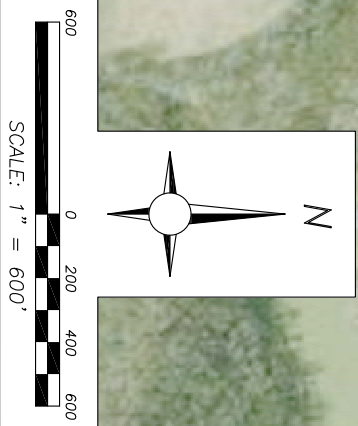
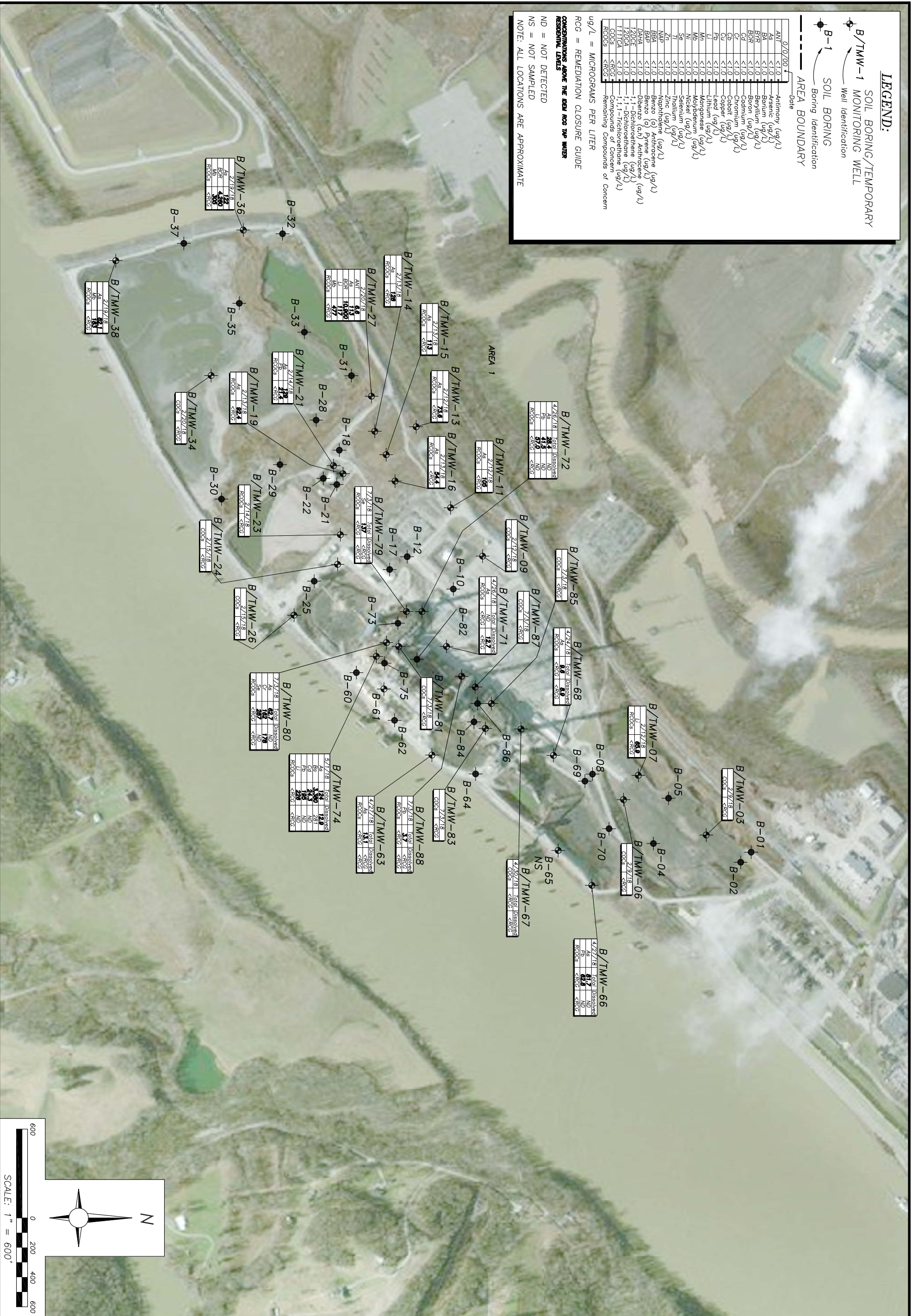
Date	Depth (ft)	As	Arsenic (mg/kg)	Ba	Barium (mg/kg)	BYR	Beryllium (mg/kg)	BOR	Boron (mg/kg)	Cd	Cadmium (mg/kg)	Cr	Chromium (mg/kg)	Cu	Copper (mg/kg)	Pb	Lead (mg/kg)	Li	Lithium (mg/kg)	Mn	Manganese (mg/kg)	Mb	Molybdenum (mg/kg)	Ni	Nickel (mg/kg)	Se	Selenium (mg/kg)	Tl	Thallium (mg/kg)	Zn	Zinc (mg/kg)	RCOCs	Remaining Compounds of Concern
0/0/00	2-4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

mg/kg = MILLIGRAMS PER KILOGRAM  
 COCS = COMPOUNDS OF CONCERN  
 RCG = REMEDIATION CLOSURE GUIDE  
 CONCENTRATIONS EXCEEDING THE IDEM RCG RESIDENTIAL SOIL MTG SCREENING LEVEL (UPDATED MARCH 2018)  
 COMMERCIAL/INDUSTRIAL DIRECT CONTACT SCREENING LEVELS (UPDATED MARCH 2018)  
 ND = NOT DETECTED  
 NOTE: ALL LOCATIONS ARE APPROXIMATE



<p><b>SOIL ANALYTICAL MAP</b></p> <p><b>AREA 2</b></p> <p>PHASE II ENVIRONMENTAL SITE ASSESSMENT</p> <p>TANNERS CREEK</p> <p>800 AEP DRIVE</p> <p>LAWRENCEBURG, INDIANA</p>	<p>Date: 5/18</p> <p>Scale: AS SHOWN</p> <p>Figure: 5</p>	<p>Project Number: 170EM00522</p> <p>Drawing File: SEE LOWER LEFT</p>	<p>Drn. By: JG</p> <p>Ckd. By: JB</p> <p>App'd By:</p> <p>Ckd. Date:</p>	

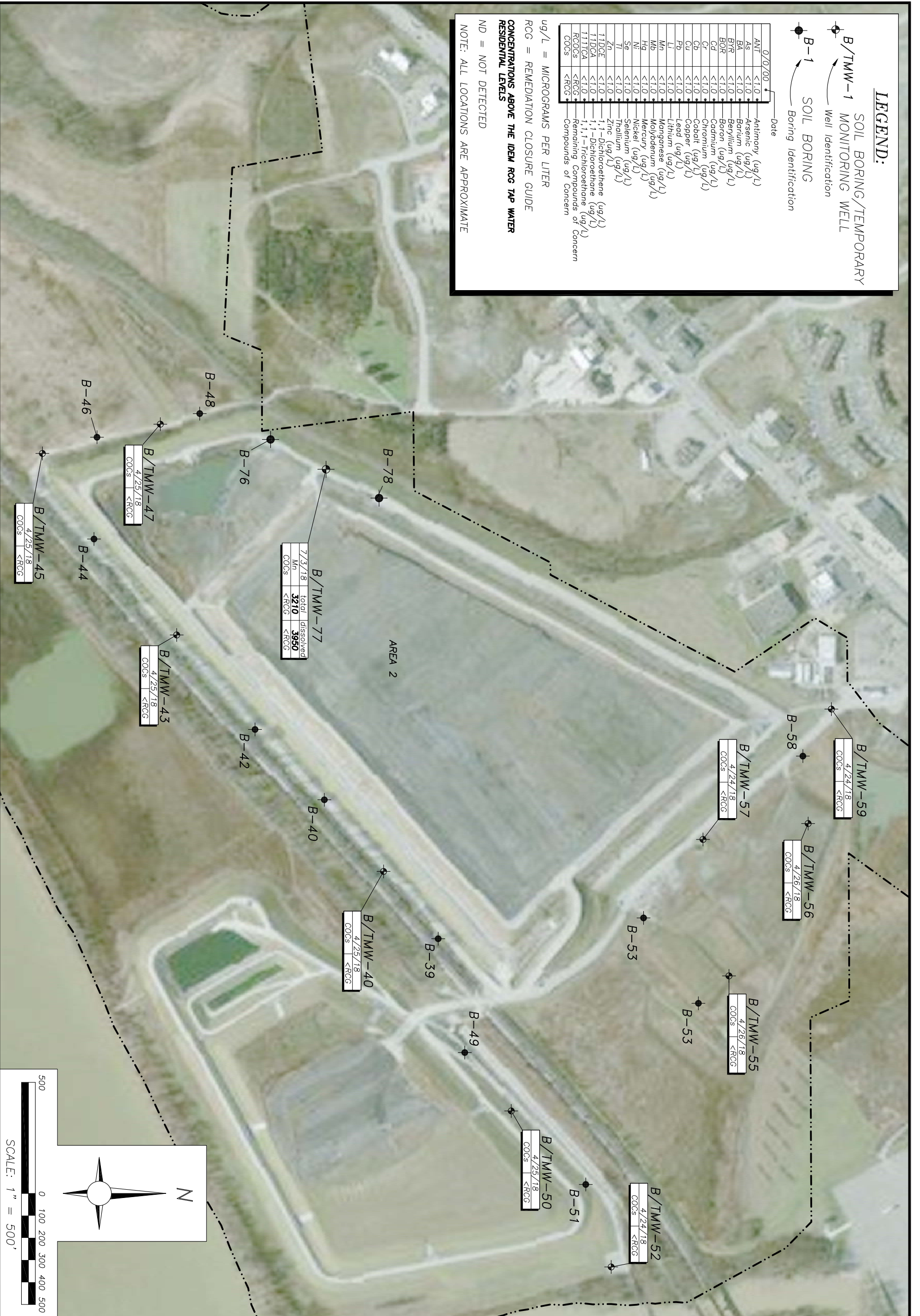




<p><b>GROUNDWATER ANALYTICAL MAP</b>  <b>AREA 1</b>                  PHASE II ENVIRONMENTAL SITE ASSESSMENT                  TANNERS CREEK                  800 AEP DRIVE                  LAWRENCEBURG, INDIANA</p>	Date: 5/18 Scale: AS SHOWN Figure: 6	Project Number: 170EM00522	Drawing File: SEE LOWER LEFT	Drm. By: JG	
				Ckd. By: JB	
					App'd By:
					Ckd. Date:







**LEGEND:**

SOIL BORING/TEMPORARY MONITORING WELL

Well Identification

B-1 SOIL BORING

Boring Identification

0.0/0.0	Date	
ANT	<1.0	Antimony (ug/L)
As	<1.0	Arsenic (ug/L)
BA	<1.0	Boron (ug/L)
BYR	<1.0	Beryllium (ug/L)
BOR	<1.0	Boron (ug/L)
Cd	<1.0	Cadmium (ug/L)
Cr	<1.0	Chromium (ug/L)
Cb	<1.0	Cobalt (ug/L)
Cu	<1.0	Copper (ug/L)
Pb	<1.0	Lead (ug/L)
Li	<1.0	Lithium (ug/L)
Mn	<1.0	Manganese (ug/L)
Mb	<1.0	Molybdenum (ug/L)
Hg	<1.0	Mercury (ug/L)
Ni	<1.0	Nickel (ug/L)
Se	<1.0	Selenium (ug/L)
Tl	<1.0	Thallium (ug/L)
Zn	<1.0	Zinc (ug/L)
11DCE	<1.0	1,1-Dichloroethene (ug/L)
11DCA	<1.0	1,1-Dichloroethane (ug/L)
11TCA	<1.0	1,1,1-Trichloroethane (ug/L)
RCOCs	<RCG	Remaining Compounds of Concern
COCS	<RCG	Compounds of Concern

ug/L = MICROGRAMS PER LITER

RCG = REMEDIATION CLOSURE GUIDE

**CONCENTRATIONS ABOVE THE IDEM RCG TAP WATER RESIDENTIAL LEVELS**

ND = NOT DETECTED

NOTE: ALL LOCATIONS ARE APPROXIMATE

500

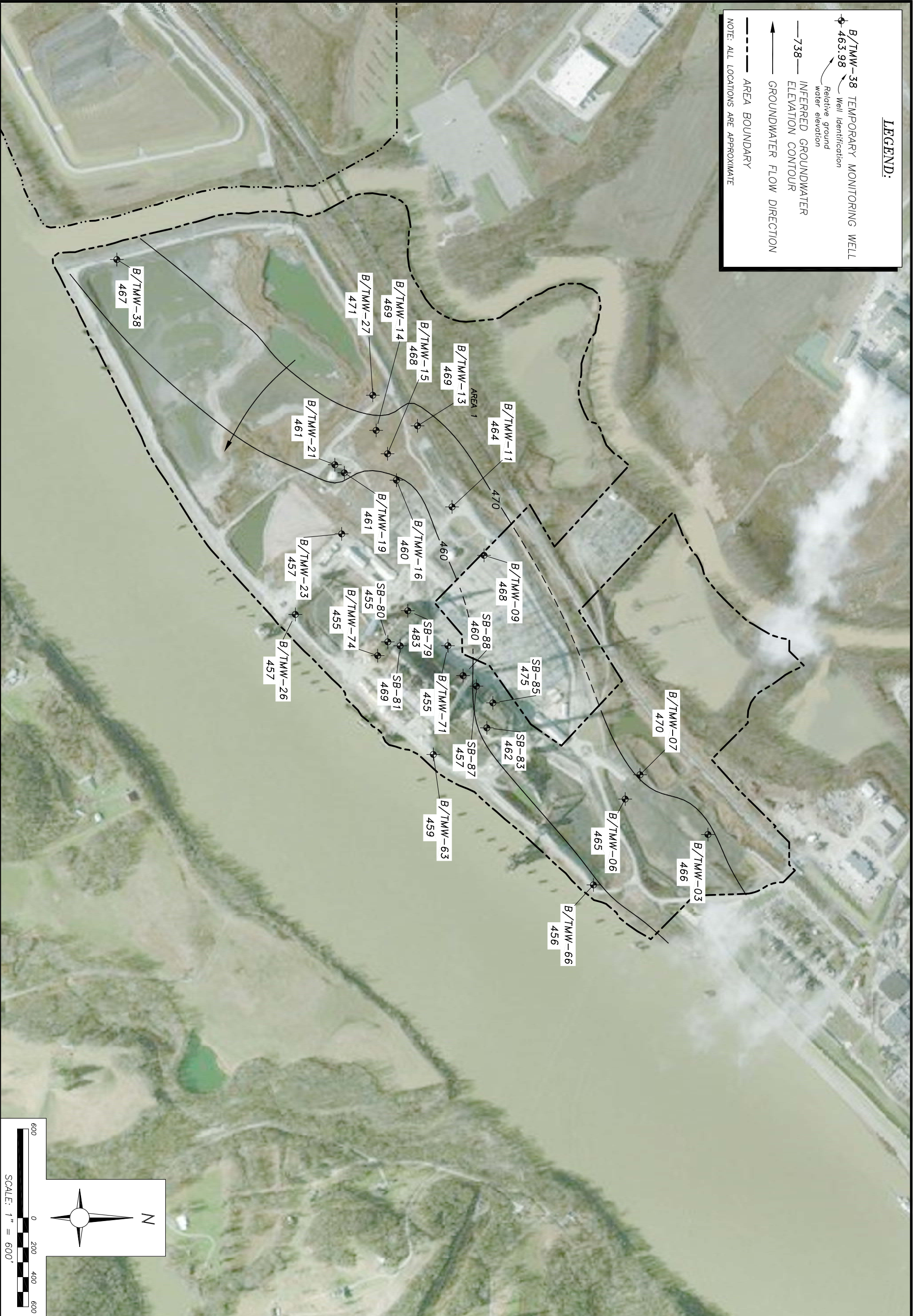
0 100 200 300 400 500

SCALE: 1" = 500'

N

<p><b>GROUNDWATER ANALYTICAL MAP</b></p> <p><b>AREA 2</b></p> <p>PHASE II ENVIRONMENTAL SITE ASSESSMENT</p> <p>TANNERS CREEK</p> <p>800 AEP DRIVE</p> <p>LAWRENCEBURG, INDIANA</p>	<p>Date: 5/18</p> <p>Scale: AS SHOWN</p> <p>Figure: 7</p>	<p>Project Number: 170EM00522</p> <p>Drawing File: SEE LOWER LEFT</p>	<p>Drn. By: JG</p> <p>Ckd. By: JB</p> <p>App'd By:</p> <p>Ckd. Date:</p>	





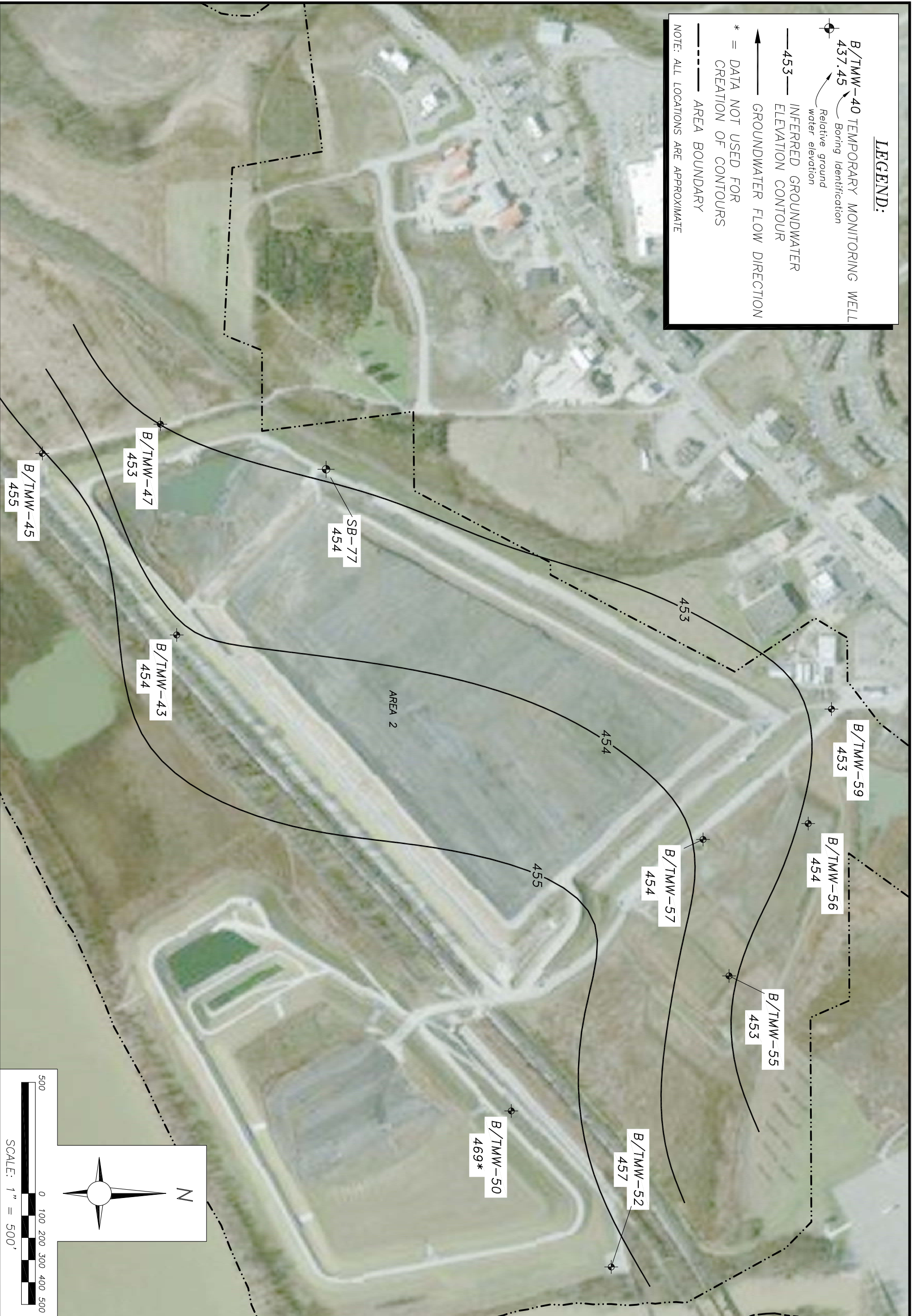
**LEGEND:**

- B/TMW-38 TEMPORARY MONITORING WELL
- Well Identification
- Relative ground water elevation
- INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- AREA BOUNDARY

NOTE: ALL LOCATIONS ARE APPROXIMATE

<p><b>POTENTIOMETRIC SURFACE MAP</b> <b>AREA 1</b> PHASE II ENVIRONMENTAL SITE ASSESSMENT TANNERS CREEK 800 AEP DRIVE LAWRENCEBURG, INDIANA</p>	<p>Date: 5/18</p>	<p>Project Number: 170EM00522</p>	<p>Drn. By: JG</p>
	<p>Scale: AS SHOWN</p>	<p>Drawing File: SEE LOWER LEFT</p>	<p>Ckd. By: JB</p>
	<p>Figure: <b>8</b></p>		
			<p>App'd By:</p>





**LEGEND:**

- B/TMW-40 TEMPORARY MONITORING WELL
- 437.45 Boring Identification
- Relative ground water elevation
- 453 INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- \* = DATA NOT USED FOR CREATION OF CONTOURS
- AREA BOUNDARY

NOTE: ALL LOCATIONS ARE APPROXIMATE

SCALE: 1" = 500'

<p><b>POTENTIOMETRIC SURFACE MAP</b>  <b>AREA 2</b>                  PHASE II ENVIRONMENTAL SITE ASSESSMENT                  TANNERS CREEK                  800 AEP DRIVE                  LAWRENCEBURG, INDIANA</p>	Date: 5/18 Scale: AS SHOWN Figure: 9	Project Number: 170EM00522	Drn. By: JG	
		Drawing File: SEE LOWER LEFT	Ckd. By: JB	
				App'd By:
				Ckd. Date:

## *Appendix A – Soil Boring Logs*



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-01  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 2/2/18 Boring Method Geoprobe  
 Date Completed 2/2/18 Sampler OD 2.0 in.  
 Drill Foreman Z. Vaughan Inspector J. Buckel

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION							
COAL ASH	1.0		1			0.2	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 14-16 ft intervals were submitted for laboratory analysis. The duplicate 2 soil sample was collected from the 14-16 ft interval.</p>
Brown, dry, CLAY (CL)			2	4.0		0.1	
			3			0.0	
		5	4	4.0		25.6	
			5			120	
		10	6	4.0		502	
			7			578	
		15	8	4.0		836	
			9			68.6	
		20	10	4.0		34.5	
			11			17.6	
		22.0	12	4.0	●	10.2	
		23.0	13			7.2	
Bottom of Boring at 25 ft	25.0	25		1.0			

Drillers License No. 2581

Depth to Groundwater

- Noted on Drilling Tools 22.0 ft.
- ∇ At Completion (open hole) -- ft.
- ▼ After -- hours -- ft.
- ⊠ Cave Depth -- ft.

- HSA - Hollow Stem Augers
- CFA - Continuous Flight Augers
- HA - Hand Auger
- BLR - Bailer
- BP - Bladder Pump
- PP - Peristaltic Pump
- SP - Submersible Pump

- TPV - Total Photo-Ionization Vapors
- TFV - Total Flame-Ionization Vapors
- PPM - Parts Per Million
- ND - None Detected
- PVC - Polyvinyl Chloride
- NA - Not Analyzed



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-02  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 2/2/18 Boring Method Geoprobe  
 Date Completed 2/2/18 Sampler OD 2.0 in.  
 Drill Foreman Z. Vaughan Inspector J. Buckel

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION							
Black, dry, COAL ASH			1			1.6	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 14-15 ft intervals were submitted for laboratory analysis. The MS/MSD soil sample was collected from the 0-2 ft interval.</p> <p>Drillers License No. 2581</p>
			2	4.0		1.1	
			3			0.8	
- wet below 5.0 ft		5			●		
			4	4.0		0.3	
Brown, dry, CLAY (CL)	7.0		5			0.9	
		10	6	4.0		1.2	
- gray/brown below 12 ft			7			1260	
			8	3.0		2450	
Bottom of Boring at 15 ft	15.0	15					

ENV\_GEOPROBE\_STANDARD REV1 170EM00522.GPJ ATCENVGE.GDT 5/22/18

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater  
 ● Noted on Drilling Tools 5.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ▼ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 SP - Submersible Pump



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-03  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 2/2/18 Boring Method Geoprobe  
 Date Completed 2/2/18 Sampler OD 2.0 in.  
 Drill Foreman Z. Vaughan Inspector J. Buckel

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION							
COAL ASH			1			0.1	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 24-25 ft intervals were submitted for laboratory analysis. The soil sample from the 0-2 ft interval was collected on 1/17/18 and the soil sample from 24-25 ft interval was collected 2/2/18.</p>
			2	4.0		0.0	
			3			0.0	
		5		4	4.0	1.0	
			5			0.0	
		10		6	4.0	0.2	
			7			0.0	
		15		8	4.0	0.0	
			9			0.1	
		20		10	4.0	0.3	
			11			0.1	
		22.0		12	4.0	0.2	
		25.0		13	1.0	0.3	
Brown, dry, CLAY (CL)							
Bottom of Boring at 25 ft							

Drillers License No. 2581

Depth to Groundwater

- Noted on Drilling Tools 11.0 ft.
- ∇ At Completion (open hole) -- ft.
- ▼ After -- hours -- ft.
- ⊠ Cave Depth -- ft.

- HSA - Hollow Stem Augers
- CFA - Continuous Flight Augers
- HA - Hand Auger
- BLR - Bailer
- BP - Bladder Pump
- PP - Peristaltic Pump
- SP - Submersible Pump

- TPV - Total Photo-Ionization Vapors
- TFV - Total Flame-Ionization Vapors
- PPM - Parts Per Million
- ND - None Detected
- PVC - Polyvinyl Chloride
- NA - Not Analyzed



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-04  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 2/2/18 Boring Method Geoprobe  
 Date Completed 2/2/18 Sampler OD 2.0 in.  
 Drill Foreman Z. Vaughan Inspector J. Buckel

Sampling Notes

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	
Black, dry, COAL ASH			1			0.0	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 18-20 ft intervals were submitted for laboratory analysis. The soil sample from the 0-2 ft interval was collected on 2/2/18 and the soil sample from 18-20 ft interval was collected 2/5/18.</p>
			2	4.0		0.1	
			3			0.0	
		5	4	4.0		0.2	
			5			0.5	
		10	6	4.0		0.7	
			7		●	0.6	
		15	8	4.0		0.9	
			9			0.3	
	18.0		10	4.0		1.2	
Brown, dry, soft, CLAY (CL)							
Bottom of Boring at 20 ft	20.0	20					

Drillers License No. 2581

Depth to Groundwater

- Noted on Drilling Tools 12.0 ft.
- ▽ At Completion (open hole) -- ft.
- ▼ After -- hours -- ft.
- ⊠ Cave Depth -- ft.

- HSA - Hollow Stem Augers
- CFA - Continuous Flight Augers
- HA - Hand Auger
- BLR - Bailer
- BP - Bladder Pump
- PP - Peristaltic Pump
- SP - Submersible Pump

- TPV - Total Photo-Ionization Vapors
- TFV - Total Flame-Ionization Vapors
- PPM - Parts Per Million
- ND - None Detected
- PVC - Polyvinyl Chloride
- NA - Not Analyzed





CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-05  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 2/2/18 Boring Method Geoprobe  
 Date Completed 2/2/18 Sampler OD 2.0 in.  
 Drill Foreman Z. Vaughan Inspector J. Buckel

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION							
COAL ASH			1			0.0	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 16-18 ft intervals were submitted for laboratory analysis.</p>
			2	4.0		0.0	
			3			0.0	
		5	4	4.0		0.1	
			5			0.0	
		10	6	4.0	●	0.2	
- wet below 11 ft			7			0.1	
Brown, dry, CLAY (CL)	13.0		8	4.0		20.6	
- gray/brown below 15 ft		15	9			1321	
			10	4.0		30.6	
Bottom of Boring at 20 ft	20.0	20					

Drillers License No. 2581

Depth to Groundwater

- Noted on Drilling Tools 11.0 ft.
- ∇ At Completion (open hole) -- ft.
- ▼ After -- hours -- ft.
- ⊠ Cave Depth -- ft.

- HSA - Hollow Stem Augers
- CFA - Continuous Flight Augers
- HA - Hand Auger
- BLR - Bailer
- BP - Bladder Pump
- PP - Peristaltic Pump
- SP - Submersible Pump

- TPV - Total Photo-Ionization Vapors
- TFV - Total Flame-Ionization Vapors
- PPM - Parts Per Million
- ND - None Detected
- PVC - Polyvinyl Chloride
- NA - Not Analyzed





CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-06  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 2/2/18 Boring Method Geoprobe  
 Date Completed 2/2/18 Sampler OD 2.0 in.  
 Drill Foreman Z. Vaughan Inspector J. Buckel

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION							
Black, dry, COAL ASH			1			0.8	A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.  The soil samples collected from the 0-2 ft and 18-20 ft intervals were submitted for laboratory analysis.
			2	4.0		1.2	
			3			1.0	
		5	4	4.0		0.6	
			5			0.1	
		10	6	4.0		0.4	
			7			0.2	
		15	8	4.0		0.6	
			9			0.7	
		17.0	10	4.0		0.8	
- wet below 12 ft							
Brown, dry, soft, CLAY (CL)							
Bottom of Boring at 20 ft	20.0	20					

Drillers License No. 2581

Depth to Groundwater

- Noted on Drilling Tools 12.0 ft.
- ▽ At Completion (open hole) -- ft.
- ▼ After -- hours -- ft.
- ⊠ Cave Depth -- ft.

- HSA - Hollow Stem Augers
- CFA - Continuous Flight Augers
- HA - Hand Auger
- BLR - Bailer
- BP - Bladder Pump
- PP - Peristaltic Pump
- SP - Submersible Pump

- TPV - Total Photo-Ionization Vapors
- TFV - Total Flame-Ionization Vapors
- PPM - Parts Per Million
- ND - None Detected
- PVC - Polyvinyl Chloride
- NA - Not Analyzed



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-07  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 2/1/18 Boring Method Geoprobe  
 Date Completed 2/1/18 Sampler OD 2.0 in.  
 Drill Foreman Z. Vaughan Inspector J. Buckel

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION							
COAL ASH			1			0.4	A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.  The soil samples collected from the 0-2 ft and 20-22 ft intervals were submitted for laboratory analysis.
			2	4.0		0.7	
		5	3			0.2	
			4	4.0		0.2	
			5			1.1	
		10	6	4.0		0.2	
			7			0.2	
		15	8	4.0	●	1.3	
			9			25.8	
			10	4.0		7.7	
		20.0	11			29.6	
			12	4.0		3.9	
		25	13			0.4	
			14	4.0		0.2	
			15			0.0	
- wet below 15 ft							
Brown, dry, CLAY (CL)							
Bottom of Boring at 30 ft	30.0	30		2.0			

Drillers License No. 2581

Depth to Groundwater

- Noted on Drilling Tools 15.0 ft.
- ∇ At Completion (open hole) -- ft.
- ▼ After -- hours -- ft.
- ⊠ Cave Depth -- ft.

- HSA - Hollow Stem Augers
- CFA - Continuous Flight Augers
- HA - Hand Auger
- BLR - Bailer
- BP - Bladder Pump
- PP - Peristaltic Pump
- SP - Submersible Pump

- TPV - Total Photo-Ionization Vapors
- TFV - Total Flame-Ionization Vapors
- PPM - Parts Per Million
- ND - None Detected
- PVC - Polyvinyl Chloride
- NA - Not Analyzed



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-08  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 2/2/18 Boring Method Geoprobe  
 Date Completed 2/2/18 Sampler OD 2.0 in.  
 Drill Foreman Z. Vaughan Inspector J. Buckel

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION							
TOPSOIL Brown and light gray, dry, CLAY (CL)	0.7		1			0.1	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 8-10 ft intervals were submitted for laboratory analysis. The duplicate 3 soil sample was collected from the 8-10 ft interval.</p> <p>Drillers License No. 2581</p>
- brown/gray below 4.0 ft			2	4.0		0.2	
			3			14.3	
		5	4	4.0		15.6	
			5			1421	
		10	6	4.0		10.6	
Brown, wet, coarse, SAND (SP) with little gravel	13.0		7		●	0.9	
Bottom of Boring at 15 ft	15.0	15	8	3.0		1.4	

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater

● Noted on Drilling Tools 13.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ▼ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 SP - Submersible Pump



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-09  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 2/1/18 Well Material PVC  
 Date Completed 2/1/18 Well Diameter 1.0 in.  
 Drill Foreman Z. Vaughan Screen Length 10 ft  
 Inspector J. Buckel Slot Size 0.010 in.  
 Boring Method Geoprobe Development Method BLR

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	TEST DATA
SURFACE ELEVATION								
Black, dry, COAL ASH	1.0			1			1.7	<p>Sampling Notes</p> <p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 30-32 ft intervals were submitted for laboratory analysis.</p> <p>A temporary well was installed in this boring for the collection of a groundwater sample.</p> <p>Drillers License No. 2581</p>
Gray, dry, SAND (SP) with some gravel				2	4.0		1.2	
		5		3			1.4	
				4	4.0		1.2	
				5			1.5	
	10.0	10		6	4.0		0.9	
Gray/brown, dry, SILTY CLAY (CL)				7			1.1	
				8	4.0		1.3	
		15		9			0.9	
				10	4.0		1.9	
				11			3.4	
		20		12	4.0	●	0.9	
- wet with some sand between 23-24 ft				13			0.1	
- brown clay below 26 ft		25		14	4.0		11.7	
				15			24.9	
		30		16	4.0		379	
	32.0			17			3.7	
Brown, wet, SAND and GRAVEL (GP)				18	3.0		1.7	
Bottom of Boring at 35 ft	35.0	35						

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater  
 ● Noted on Drilling Tools 23.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ∇ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-10  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 2/1/18 Boring Method Geoprobe  
 Date Completed 2/1/18 Sampler OD 2.0 in.  
 Drill Foreman Z. Vaughan Inspector J. Buckel

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION							
Brown, dry, sand and gravel (FILL)	1.0		1			1.0	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 18-20 ft intervals were submitted for laboratory analysis.</p>
Black, dry, COAL ASH	2.0						
Gray, dry, SAND (SP) with some gravel			2	4.0		0.7	
			3			1.4	
		5					
			4	4.0		0.8	
			5			0.7	
		10					
			6	4.0		0.5	
			7			0.8	
		15					
			8	4.0		5.0	
			9			5.4	
		20					
			10	4.0		6.9	
			11			2.1	
			12	4.0		0.9	
			13			0.8	
	25.0	25		1.0			
Bottom of Boring at 25 ft							

Drillers License No. 2581

Depth to Groundwater

- Noted on Drilling Tools 21.0 ft.
- ▽ At Completion (open hole) -- ft.
- ▽ After -- hours -- ft.
- ⊠ Cave Depth -- ft.

- HSA - Hollow Stem Augers
- CFA - Continuous Flight Augers
- HA - Hand Auger
- BLR - Bailer
- BP - Bladder Pump
- PP - Peristaltic Pump
- SP - Submersible Pump

- TPV - Total Photo-Ionization Vapors
- TFV - Total Flame-Ionization Vapors
- PPM - Parts Per Million
- ND - None Detected
- PVC - Polyvinyl Chloride
- NA - Not Analyzed



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-11  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 2/1/18 Well Material PVC  
 Date Completed 2/1/18 Well Diameter 1.0 in.  
 Drill Foreman Z. Vaughan Screen Length 10 ft  
 Inspector J. Buckel Slot Size 0.010 in.  
 Boring Method Geoprobe Development Method BLR

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	TEST DATA
SURFACE ELEVATION								
Brown, dry, SAND and GRAVEL (GP)				1			1.0	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 32-34 ft intervals were submitted for laboratory analysis.</p> <p>A temporary well was installed in this boring for the collection of a groundwater sample.</p> <p>Drillers License No. 2581</p>
	4.0			2	4.0		0.7	
Gray, dry, SILTY SAND (SM) with little gravel		5		3			0.4	
				4	4.0		0.9	
				5			0.8	
	10			6	4.0		1.0	
				7			0.8	
	15			8	4.0		0.8	
				9			1.0	
	20			10	4.0		1.3	
				11			0.9	
	25			12	4.0		0.7	
				13			0.3	
Gray, dry, CLAY (CL)	26.0			14	4.0		1.2	
				15			0.8	
	30			16	4.0		0.6	
				17			2.6	
	34.5			18	4.0	●	1.4	
Brown, wet, coarse, SAND and GRAVEL (GP)		35		19			0.8	
				20	4.0		1.0	
Bottom of Boring at 40 ft	40.0	40						

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater

● Noted on Drilling Tools 34.5 ft.  
 ∇ At Completion (open hole) -- ft.  
 ▽ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-12  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 2/1/18 Boring Method Geoprobe  
 Date Completed 2/1/18 Sampler OD 2.0 in.  
 Drill Foreman Z. Vaughan Inspector J. Buckel

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION							
Brown, dry, SAND and GRAVEL (GP)	5.0	5	1			2.1	A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.
			2	4.0	1.3		
			3		4.1		
			4	4.0	1.4		
			5		1.5		
			6	4.0	3.0		
			7		1.0		
			8	4.0	1.6		
			9		3.9		
			10	4.0	1.4		
Gray, dry, SILTY SAND (SM) with little gravel	10	10	11			9.2	The soil samples collected from the 0-2 ft and 20-22 ft intervals were submitted for laboratory analysis. The duplicate 1 soil sample was collected from the 20-22 ft interval.
			12	4.0	0.3		
			13		0.3		
			14	4.0	2.8		
			15		0.6		
			16	4.0	1.9		
			17		0.8		
			18	4.0	0.5		
Gray/brown, dry, CLAY (CL) - with some sand between 30-32 ft	28.0	30	15			0.6	
			16	4.0	1.9		
Brown, wet, coarse, SAND and GRAVEL (GP) Bottom of Boring at 35 ft	34.0 35.0	35	17			0.8	
			18	3.0	0.5		

Drillers License No. 2581

Depth to Groundwater

- Noted on Drilling Tools 34.0 ft.
- ▽ At Completion (open hole) -- ft.
- ▽ After -- hours -- ft.
- ⊠ Cave Depth -- ft.

- HSA - Hollow Stem Augers
- CFA - Continuous Flight Augers
- HA - Hand Auger
- BLR - Bailer
- BP - Bladder Pump
- PP - Peristaltic Pump
- SP - Submersible Pump

- TPV - Total Photo-Ionization Vapors
- TFV - Total Flame-Ionization Vapors
- PPM - Parts Per Million
- ND - None Detected
- PVC - Polyvinyl Chloride
- NA - Not Analyzed



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-13  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 2/1/18 Well Material PVC  
 Date Completed 2/1/18 Well Diameter 1.0 in.  
 Drill Foreman Z. Vaughan Screen Length 10 ft  
 Inspector J. Buckel Slot Size 0.010 in.  
 Boring Method Geoprobe Development Method BLR

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	TEST DATA
SURFACE ELEVATION								
Black, dry, COAL ASH				1			0.0	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 28-30 ft intervals were submitted for laboratory analysis.</p> <p>A temporary well was installed in this boring for the collection of a groundwater sample.</p> <p>Drillers License No. 2581</p>
				2	4.0		0.2	
				3			0.5	
				4	4.0		0.1	
				5			0.5	
- gray, very fine, silty fly ash below 10 ft		10		6	4.0		1.4	
				7			0.7	
- slightly moist between 14-16 ft		15		8	4.0		0.9	
				9			3.0	
				10	4.0		0.9	
				11			1.2	
				12	4.0		0.5	
- slightly moist between 24-26 ft		25		13			0.0	
				14	4.0		0.3	
				15			1.1	
- wet with some sand below 30 ft		30		16	4.0	●	0.6	
Gray/brown, dry, CLAY (CL)	32.0			17			0.9	
Bottom of Boring at 35 ft	35.0	35		18			1.2	

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater

● Noted on Drilling Tools 30.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ∇ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump





CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-14  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 1/29/18 Well Material PVC  
 Date Completed 1/29/18 Well Diameter 1.0 in.  
 Drill Foreman Z. Vaughan Screen Length 10 ft  
 Inspector J. Buckel Slot Size 0.010 in.  
 Boring Method Geoprobe Development Method BLR

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	TEST DATA
SURFACE ELEVATION								
COAL ASH				1			0.3	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 28-30 ft intervals were submitted for laboratory analysis. The MS/MSD soil sample was collected from the 0-2 ft interval.</p> <p>A temporary well was installed in this boring for the collection of a groundwater sample.</p> <p>Drillers License No. 2581</p>
				2	4.0		0.3	
		5		3			1.0	
				4	4.0		1.6	
				5			2.7	
- gray, dry, very fine, silty fly ash below 10 ft		10		6	4.0		1.1	
				7			0.2	
		15		8	4.0		2.5	
				9			0.8	
		20		10	4.0		6.7	
				11			24.1	
		25		12	4.0		4.8	
- black/gray below 24 ft - moist between 24-25 ft				13			14.8	
		28.0		14	4.0		0.0	
Dark grayish brown, slightly moist, CLAY (CL)				15			42.5	
		30		16	4.0		9.5	
- wet with some sand between 32-34 ft				17			6.6	
- gray/brown below 34 ft		35		18	4.0		4.1	
				19			0.0	
		40.0		20	4.0		1.8	
Bottom of Boring at 40 ft		40						

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater

● Noted on Drilling Tools 32.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ▽ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-15  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 1/29/18 Well Material PVC  
 Date Completed 1/29/18 Well Diameter 1.0 in.  
 Drill Foreman Z. Vaughan Screen Length 10 ft  
 Inspector J. Buckel Slot Size 0.010 in.  
 Boring Method Geoprobe Development Method BLR

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	TEST DATA
SURFACE ELEVATION								
COAL ASH				1			1.2	A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.
				2	4.0		1.0	
		5		3			1.5	
				4	4.0		1.7	
				5			2.4	
- gray, dry, very fine, silty fly ash below 10 ft		10		6	4.0		0.9	The soil samples collected from the 0-2 ft and 32-34 ft intervals were submitted for laboratory analysis.
				7			0.9	
				8	4.0		1.8	
- black/gray and moist between 16-18 ft		15		9			1.2	
				10	4.0		0.8	
				11			17.2	
				12	4.0		18.6	
- black/gray and moist between 23-25 ft		25		13			2.4	
				14	4.0		0.9	
				15			15.8	
Dark grayish brown, slightly moist, CLAY (CL)		30.0		16	4.0		17.1	
				17			38.1	
- wet with some sand between 34.5-37 ft		35		18	4.0	●	12.9	
				19			0.0	
- gray/brown below 37 ft				20	4.0		0.0	
Bottom of Boring at 40 ft	40.0	40						A temporary well was installed in this boring for the collection of a groundwater sample.

Drillers License No. 2581

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater

● Noted on Drilling Tools 34.5 ft.  
 ∇ At Completion (open hole) -- ft.  
 ∇ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-16  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 1/29/18 Well Material PVC  
 Date Completed 1/29/18 Well Diameter 1.0 in.  
 Drill Foreman Z. Vaughan Screen Length 10 ft  
 Inspector J. Buckel Slot Size 0.010 in.  
 Boring Method Geoprobe Development Method BLR

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	TEST DATA
SURFACE ELEVATION								
COAL ASH				1			1.3	A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.
				2	4.0		1.2	
		5		3			2.6	
				4	4.0		4.0	
				5			2.3	
- gray, dry, very fine, silty fly ash below 10 ft		10		6	4.0		2.8	The soil samples collected from the 0-2 ft and 34-36 ft intervals were submitted for laboratory analysis.
				7			7.9	
				8	4.0		7.8	
- moist between 15-17 ft		15		9			2.7	
				10	4.0		12.4	
				11			6.6	
				12	4.0		12.6	
				13			5.6	
- moist between 25-27 ft		25		14	4.0		4.2	
				15			10.0	
Dark grayish brown, slightly moist, CLAY (CL)		32.0		16	4.0		8.9	
- with some sand between 34-38 ft				17			20.7	
				18	4.0		70.6	
- wet between 36-38 ft		35		19			1.3	
- grayish brown below 38 ft				20	4.0		1.2	
Bottom of Boring at 40 ft		40						A temporary well was installed in this boring for the collection of a groundwater sample.

Drillers License No. 2581

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater

● Noted on Drilling Tools 36.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ▼ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump



CLIENT Ports of Indiana  
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 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-17  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 1/31/18 Boring Method Geoprobe  
 Date Completed 1/31/18 Sampler OD 2.0 in.  
 Drill Foreman Z. Vaughan Inspector J. Buckel

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION							
Brown, dry, sand, gravel, and clay (FILL)	6.0	5	1			1.6	A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.
			2	4.0	1.4		
			3		0.8		
			4	4.0	0.3		
			5		0.2		
Gray, dry, SILTY SAND (SM) with trace gravel	10	10	6	4.0	1.8		
			7		1.3		
			8	4.0	0.7		
			9		1.7		
			10	4.0	0.9		
Gray/brown, dry, SILTY CLAY (CL)	20.0	20	11		0.3	The soil samples collected from the 0-2 ft and 32-34 ft intervals were submitted for laboratory analysis.	
			12	4.0	0.4		
			- moist between 24-26 ft	25			1.0
			14	4.0	0.2		
			15		1.5		
Gray, dry, SILTY SAND (SM)	30.0	30	16	4.0	0.6		
			17		1.6		
			- wet with gravel between 34-36 ft	18	4.0		0.1
Gray, dry, CLAY (CL)	36.0	35	19		0.9		
			20	4.0	1.4		
Bottom of Boring at 40 ft	40.0	40					

Drillers License No. 2581

Depth to Groundwater

- Noted on Drilling Tools 34.0 ft.
- ▽ At Completion (open hole) -- ft.
- ▽ After -- hours -- ft.
- ⊠ Cave Depth -- ft.

- HSA - Hollow Stem Augers
- CFA - Continuous Flight Augers
- HA - Hand Auger
- BLR - Bailer
- BP - Bladder Pump
- PP - Peristaltic Pump
- SP - Submersible Pump

- TPV - Total Photo-Ionization Vapors
- TFV - Total Flame-Ionization Vapors
- PPM - Parts Per Million
- ND - None Detected
- PVC - Polyvinyl Chloride
- NA - Not Analyzed



CLIENT Ports of Indiana  
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 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-18  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 1/30/18 Boring Method Geoprobe  
 Date Completed 1/30/18 Sampler OD 2.0 in.  
 Drill Foreman Z. Vaughan Inspector J. Buckel

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes	
SURFACE ELEVATION								
Dark brown, dry, sand, gravel, and clay (FILL)	8.0		1			2.6	A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.	
			2	4.0		0.0		
			5	3				1.1
				4	4.0			4.7
Gray, dry, very fine, silty fly ash (COAL ASH)	28.0		5			0.8	The soil samples collected from the 0-2 ft and 26-28 ft intervals were submitted for laboratory analysis.	
			10	6	4.0			1.4
				7				0.0
				8	4.0			0.9
				9				0.0
				10	4.0			6.5
				11				5.6
				12	4.0			5.7
				13				2.2
				14	4.0			19.6
Dark grayish brown, slightly moist, CLAY (CL)	40.0		15			9.0	Drillers License No. 2581	
				16	4.0			5.8
				17		●		11.2
				18	4.0			6.1
				19				2.6
				20	4.0			9.8
Bottom of Boring at 40 ft								

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater  
 ● Noted on Drilling Tools 33.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ▼ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 SP - Submersible Pump

ENV\_GEOPROBE\_STANDARD REV1 170EM00522.GPJ ATCENVGE.GDT 5/9/18



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-19  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 1/30/18 Well Material PVC  
 Date Completed 1/30/18 Well Diameter 1.0 in.  
 Drill Foreman Z. Vaughan Screen Length 10 ft  
 Inspector J. Buckel Slot Size 0.010 in.  
 Boring Method Geoprobe Development Method BLR

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	TEST DATA
SURFACE ELEVATION								
Dark brown, dry, sand, and gravel (FILL)				1			3.7	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 30-32 ft intervals were submitted for laboratory analysis.</p> <p>A temporary well was installed in this boring for the collection of a groundwater sample.</p> <p>Drillers License No. 2581</p>
				2	4.0		1.2	
				3			1.7	
Gray, dry, very fine, silty fly ash (COAL ASH)	6.0	5		4	4.0		0.3	
				5			0.8	
- moist between 10-12 ft		10		6	4.0		0.1	
				7			0.6	
				8	4.0		2.1	
- moist between 18-20 ft		15		9			3.9	
				10	4.0		5.9	
				11			16.0	
				12	4.0		29.4	
				13			1.7	
Dark gray/brown, dry, CLAY (CL)	28.0	25		14	4.0		1.1	
				15			18.5	
				16	4.0	●	31.7	
Gray, wet, SILTY SAND (SM)	32.0	30		17			7.8	
				18	4.0		8.2	
Gray/brown, dry, CLAY (CL)	34.0	35		19			0.7	
				20	4.0		0.0	
Bottom of Boring at 40 ft	40.0	40						

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater

● Noted on Drilling Tools 32.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ∇ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-20  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 1/30/18 Boring Method Geoprobe  
 Date Completed 1/30/18 Sampler OD 2.0 in.  
 Drill Foreman Z. Vaughan Inspector J. Buckel

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION							
Brown, dry, sand, and gravel (FILL)			1			2.6	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 28-30 ft intervals were submitted for laboratory analysis.</p> <p>Drillers License No. 2581</p>
			2	4.0		0.2	
			3			0.0	
			4	4.0		0.0	
	8.0		5			0.0	
Gray, dry, very fine, silty fly ash (COAL ASH)			6	4.0		0.0	
			7			0.0	
- moist between 13-15 ft			8	4.0		0.0	
			9			0.5	
			10	4.0		14.0	
- moist between 20-23 ft			11			17.2	
			12	4.0		4.8	
			13			0.0	
Gray, dry, CLAY (CL)	26.0		14	4.0		0.0	
			15			38.0	
			16	4.0		11.6	
Gray, wet, SAND (SP) with little gravel	32.0		17		●	0.0	
			18	4.0		0.0	
			19			0.0	
Gray/brown, dry, CLAY (CL)	36.0		20	4.0		0.0	
Bottom of Boring at 40 ft	40.0	40					

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater

● Noted on Drilling Tools 32.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ▼ After -- hours -- ft.  
 ▬ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 SP - Submersible Pump



CLIENT Ports of Indiana  
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 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-21  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 1/30/18 Well Material PVC  
 Date Completed 1/30/18 Well Diameter 1.0 in.  
 Drill Foreman Z. Vaughan Screen Length 10 ft  
 Inspector J. Buckel Slot Size 0.010 in.  
 Boring Method Geoprobe Development Method BLR

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	TEST DATA
SURFACE ELEVATION								
Dark brown, dry, sand, and gravel (FILL)				1			0.0	A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.
				2	4.0		0.0	
		5		3			0.0	
				4	4.0		0.0	
	8.0			5			0.2	
Gray, dry, very fine, silty fly ash (COAL ASH)				6	4.0		0.0	The soil samples collected from the 0-2 ft and 28-30 ft intervals were submitted for laboratory analysis.
				7			0.0	
		10		8	4.0		0.0	
				9			1.3	
- moist between 17-18 ft				10	4.0		0.0	
		15		11			13.7	
- moist between 21-23 ft				12	4.0		6.7	
		20		13			0.0	
	26.0			14	4.0		15.3	
Gray, dry, SILTY CLAY (CL)				15			37.0	
		30		16	4.0		2.5	
	32.0			17			0.0	
Gray, wet, SAND and GRAEL (GP)				18	4.0		0.0	
Gray, dry, SILTY CLAY (SC)				19			0.0	
	34.0			20	4.0		1.2	
Bottom of Boring at 40 ft	40.0	40						A temporary well was installed in this boring for the collection of a groundwater sample.

Drillers License No. 2581

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater

● Noted on Drilling Tools 32.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ▽ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump





CLIENT Ports of Indiana  
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 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-22  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 1/30/18 Boring Method Geoprobe  
 Date Completed 1/30/18 Sampler OD 2.0 in.  
 Drill Foreman Z. Vaughan Inspector J. Buckel

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION							
Brown, dry, sand, and gravel (FILL)			1			0.0	A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.
			2	4.0		0.0	
			3			0.0	
			4	4.0		0.0	
			5			0.0	
Gray, dry, very fine, silty fly ash (COAL ASH)	10.0		6	4.0		0.0	The soil samples collected from the 0-2 ft and 24-26 ft intervals were submitted for laboratory analysis.
			7			0.0	
			8	4.0		7.3	
			9			10.4	
			10	4.0		15.9	
			11			14.3	
			12	4.0		6.8	
			13			16.9	
			14	4.0		2.2	
			15			11.3	
Dark gray/brown, slightly moist, CLAY (CL) - silty below 31 ft - wet with some sand between 32-35 ft	30.0		16	4.0		0.9	● Noted on Drilling Tools <u>32.0</u> ft.
			17			0.5	
			18	4.0		1.2	
- gray/brown and dry below 35 ft			19			0.0	▽ At Completion (open hole) <u>--</u> ft.
			20	4.0		1.4	
Bottom of Boring at 40 ft	40.0	40					▼ After <u>--</u> hours <u>--</u> ft.

Drillers License No. 2581

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

● Noted on Drilling Tools 32.0 ft.  
 ▽ At Completion (open hole) -- ft.  
 ▼ After -- hours -- ft.  
 ▢ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 SP - Submersible Pump



CLIENT Ports of Indiana  
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 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-23  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 1/31/18 Well Material PVC  
 Date Completed 1/31/18 Well Diameter 1.0 in.  
 Drill Foreman Z. Vaughan Screen Length 10 ft  
 Inspector J. Buckel Slot Size 0.010 in.  
 Boring Method Geoprobe Development Method BLR

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	TEST DATA
SURFACE ELEVATION								
GRAVEL	0.3			1			104	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 10-12 ft intervals were submitted for laboratory analysis. The MS/MSD soil sample was collected from the 0-2 ft interval.</p> <p>A temporary well was installed in this boring for the collection of a groundwater sample.</p> <p>Drillers License No. 2581</p>
Black, dry, COAL ASH	3.0			2	4.0		6.3	
Brown, dry, CLAY (CL)		5		3			3.4	
				4	4.0		3.0	
				5			19.6	
		10		6	4.0		205	
				7			4.4	
				8	4.0		3.4	
				9			9.1	
		15		10	4.0		11.4	
- gray/brown with increasing silt content below 20 ft				11			168	
				12	4.0		8.1	
				13			6.0	
- wet between 26-28 ft		25		14	4.0	●	8.0	
				15			6.0	
		30		16	4.0		14.5	
				17			2.7	
Gray, dry, SILTY SAND (SM)	34.0			18	4.0		0.8	
		35		19			1.3	
Gray, dry, CLAY (CL)	38.0			20	4.0		6.5	
Bottom of Boring at 40 ft	40.0	40						

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater  
 ● Noted on Drilling Tools 26.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ∇ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-24  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 1/31/18 Well Material PVC  
 Date Completed 1/31/18 Well Diameter 1.0 in.  
 Drill Foreman Z. Vaughan Screen Length 10 ft  
 Inspector J. Buckel Slot Size 0.010 in.  
 Boring Method Geoprobe Development Method BLR

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	TEST DATA
SURFACE ELEVATION								
Dark brown, dry, sand, gravel, and clay (FILL)				1			114	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 16-18 ft intervals were submitted for laboratory analysis.</p> <p>A temporary well was installed in this boring for the collection of a groundwater sample.</p> <p>Drillers License No. 2581</p>
				2	4.0		2.3	
		5		3			4.2	
				4	4.0		0.0	
Brown, dry, CLAY (CL)	8.0			5			7.4	
Brown, dry, SAND and GRAVEL (GP)	10.0	10		6	4.0		4.5	
				7			1.6	
				8	4.0		1.2	
Gray/brown, dry, CLAY (CL)	16.0	15		9			1251	
				10	4.0		1.0	
- brown below 20 ft		20		11			0.0	
				12	4.0		0.0	
- wet with some sand below 25 ft		25		13		●	0.0	
				14	4.0		0.0	
				15			0.0	
Gray, dry, SILTY CLAY (CL)	30.0	30		16	4.0		0.0	
				17			0.0	
		35		18	4.0		0.0	
				19			0.0	
		40.0		20	4.0		0.0	
Bottom of Boring at 40 ft		40						

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater

● Noted on Drilling Tools 25.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ▽ After -- hours -- ft.  
 ⊠ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-25  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 1/31/18 Boring Method Geoprobe  
 Date Completed 1/31/18 Sampler OD 2.0 in.  
 Drill Foreman Z. Vaughan Inspector J. Buckel

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION							
Brown, dry, sand, and gravel (FILL)	1.0		1			1.4	A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.
Gray, moist, CLAY and SAND (SC)	4.0		2	4.0		0.0	
Dark brown, dry, CLAY (CL)  - moist with some silt between 10-12 ft	5		3			1.5	
	4		4	4.0		1.4	
	5		5			685	
	10		6	4.0		968	
	7		7			106	
	15		8	4.0		11.9	
	9		9			6.2	
	20.0		10	4.0		8.8	
	20		11			0.5	
	12		12	4.0		2.4	
Brown, dry, SILTY CLAY (CL)  - wet with sand below 25 ft	25		13		●	0.0	The soil samples collected from the 0-2 ft and 10-12 ft intervals were submitted for laboratory analysis.
	14		14	4.0		0.0	
	15		15			0.0	
	30		16	4.0		0.4	
	17		17			0.0	
	35		18	4.0		0.2	
	19		19			0.1	
	40.0		20	4.0		0.0	
Bottom of Boring at 40 ft	40						

Drillers License No. 2581

Depth to Groundwater

- Noted on Drilling Tools 25.0 ft.
- ∇ At Completion (open hole) -- ft.
- ▼ After -- hours -- ft.
- ⊠ Cave Depth -- ft.

- HSA - Hollow Stem Augers
- CFA - Continuous Flight Augers
- HA - Hand Auger
- BLR - Bailer
- BP - Bladder Pump
- PP - Peristaltic Pump
- SP - Submersible Pump

- TPV - Total Photo-Ionization Vapors
- TFV - Total Flame-Ionization Vapors
- PPM - Parts Per Million
- ND - None Detected
- PVC - Polyvinyl Chloride
- NA - Not Analyzed



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-26  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 1/31/18 Well Material PVC  
 Date Completed 1/31/18 Well Diameter 1.0 in.  
 Drill Foreman Z. Vaughan Screen Length 10 ft  
 Inspector J. Buckel Slot Size 0.010 in.  
 Boring Method Geoprobe Development Method BLR

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	TEST DATA
SURFACE ELEVATION								
Dark brown, dry, sand, gravel, and clay (FILL)				1			1.8	A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.
				2	4.0		1.5	
		5		3			5.0	
				4	4.0		3.8	
	8.0			5			4.2	
Brown, dry, CLAY (CL)				6	4.0		4.5	The soil samples collected from the 0-2 ft and 24-26 ft intervals were submitted for laboratory analysis.
Gray, dry, SAND (SP) with trace gravel		10		7			0.6	
				8	4.0		1.4	
		15		9	4.0		7.4	
	18.0			10	4.0		247	
Gray/brown, dry, SILTY CLAY (CL)		20		11			14.8	
				12	4.0		529	
		25		13			1074	
- wet with some sand below 26 ft				14	4.0		25.8	
		30		15			33.9	
	32.0			16	4.0		270	
Gray, dry, SILTY SAND (SM)				17			138	
		35		18	4.0		40.2	
				19			104	
		40.0		20	4.0		32.5	
Bottom of Boring at 40 ft		40						A temporary well was installed in this boring for the collection of a groundwater sample.

Drillers License No. 2581

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater

● Noted on Drilling Tools 26.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ▽ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-27  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 2/5/18 Well Material PVC  
 Date Completed 2/5/18 Well Diameter 1.0 in.  
 Drill Foreman Z. Vaughan Screen Length 10 ft  
 Inspector J. Buckel Slot Size 0.010 in.  
 Boring Method Geoprobe Development Method BLR

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	TEST DATA
SURFACE ELEVATION								
Black, slightly moist, COAL ASH				1			6.5	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 48-50 ft intervals were submitted for laboratory analysis.</p> <p>A temporary well was installed in this boring for the collection of a groundwater sample.            Drillers License No. 2581</p>
- gray, dry, silty sand, very fine fly ash		5		2	4.0		1.4	
				3			5.6	
				4	4.0		2.3	
		10		5			6.4	
				6	4.0		3.7	
				7			4.7	
- moist between 15-17 ft		15		8	4.0		2.1	
				9			2.6	
		20		10	4.0		1.4	
				11			1.1	
				12	4.0		0.9	
- moist between 25-28 ft		25		13			2.5	
				14	4.0		4.3	
		30		15			5.0	
				16	4.0		3.4	
				17			3.5	
		35		18	4.0		5.0	
				19			0.2	
		40		20	4.0		0.9	
- wet with little gravel between 42-44 ft				21		●	1.2	
				22	4.0		2.5	
	45.0	45		23			5.6	
Gray/brown, slightly moist, CLAY (CL)				24	4.0		0.0	
- brown below 48 ft				25			1.7	
Bottom of Boring at 50 ft	50.0	50			2.0			

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater  
 ● Noted on Drilling Tools 42.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ∇ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-28  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 2/6/18 Well Material \_\_\_\_\_  
 Date Completed 2/6/18 Well Diameter \_\_\_\_\_ in.  
 Drill Foreman Z. Vaughan Screen Length \_\_\_\_\_ ft  
 Inspector J. Buckel Slot Size \_\_\_\_\_ in.  
 Boring Method Geoprobe Development Method \_\_\_\_\_

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION								
Black, dry, COAL ASH				1			1.8	A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.  The soil samples collected from the 0-2 ft and 28-30 ft intervals were submitted for laboratory analysis.
				2	4.0		1.2	
			5	3			0.9	
				4	4.0		1.6	
				5			0.5	
			10	6	4.0		0.2	
				7			1.6	
			15	8	4.0		1.7	
				9			1.2	
		19.0		10	4.0		0.4	
	Brown, wet, SAND (SP) - coarse sand and gravel between 20-25 ft		20	11			0.7	
				12	4.0		1.4	
			25.0	13			0.8	
	Brown, dry, CLAY (CL)		25	14	4.0		1.0	
			28.0	15			2.0	
Brown, dry, SILT (ML)		30.0			2.0			
Bottom of Boring at 30 ft	30.0	30						

Drillers License No. 2581

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater  
 ● Noted on Drilling Tools 19.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ∇ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump



CLIENT Ports of Indiana  
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Lawrenceburg, Indiana 47025

BORING # B-29  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 2/6/18 Well Material \_\_\_\_\_  
 Date Completed 2/6/18 Well Diameter \_\_\_\_\_ in.  
 Drill Foreman Z. Vaughan Screen Length \_\_\_\_\_ ft  
 Inspector J. Buckel Slot Size \_\_\_\_\_ in.  
 Boring Method Geoprobe Development Method \_\_\_\_\_

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	TEST DATA
SURFACE ELEVATION								Sampling Notes
Brown, dry, SAND and GRAVEL (GP)	2.0			1			1.0	
Brown, dry, CLAY (CL)		5		2	4.0		0.8	
				3			1.3	
				4	4.0		0.4	
		10		5			1.6	
				6	4.0		1.2	
				7			10.2	
- gray below 14 ft		15		8	4.0		907	
				9			613	
		20		10	4.0		331	
				11			1.7	
	23.0			12	4.0		2.1	
Brown, dry, SILTY SAND (SM)		25		13			0.4	
				14	4.0		1.1	
		30		15			0.8	
- wet below 30 ft				16	4.0	●	1.6	
				17			1.2	
	35.0	35		18	3.0		1.5	
Bottom of Boring at 35 ft								

Drillers License No. 2581

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater

● Noted on Drilling Tools 30.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ▽ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump





CLIENT Ports of Indiana  
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 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-30  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 2/6/18 Well Material \_\_\_\_\_  
 Date Completed 2/6/18 Well Diameter \_\_\_\_\_ in.  
 Drill Foreman Z. Vaughan Screen Length \_\_\_\_\_ ft  
 Inspector J. Buckel Slot Size \_\_\_\_\_ in.  
 Boring Method Geoprobe Development Method \_\_\_\_\_

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION								
Dry, sand, gravel, and COAL ASH				1			1.6	A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.
				2	4.0		0.8	
		5		3			0.1	
				4	4.0		0.7	
	9.0			5			0.6	
Dark brown, dry, CLAY (CL)		10		6	4.0		0.5	The soil samples collected from the 0-2 ft and 24-25 ft intervals were submitted for laboratory analysis.
				7			1.2	
		15		8	4.0		1.6	
	16.0			9			1.2	
Dark brown to brown, dry, SANDY SILT (SM)				10	4.0		0.5	
		20		11			1.4	
				12	4.0	●	0.2	
				13			1.3	
- wet below 22 ft								
Bottom of Boring at 25 ft	25.0	25			1.0			

Drillers License No. 2581

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater

● Noted on Drilling Tools 22.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ▽ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-31  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 2/5/18 Boring Method Geoprobe  
 Date Completed 2/5/18 Sampler OD 2.0 in.  
 Drill Foreman Z. Vaughan Inspector J. Buckel

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION							
Dark brown, dry, SAND and GRAVEL (GP)	2.0		1			42.9	A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.
Gray, dry, very fine, silty fly ash (COAL ASH)			2	4.0		3.2	
		5	3			4.4	
			4	4.0		2.7	
			5			5.5	
		10	6	4.0		6.2	
- dark brown between 12-14 ft			7			4.7	
		15	8	4.0		5.6	
			9			1.1	
			10	4.0		4.7	
Dark brown, dry, CLAY (CL)	20.0	20	11			5.9	The soil samples collected from the 0-2 ft and 38-40 ft intervals were submitted for laboratory analysis.
			12	4.0		1.8	
			13			4.2	
Gray, dry, very fine, silty fly ash (COAL ASH)	25.0	25	14	4.0		1.3	
			15			2.4	
		30	16	4.0		1.5	
- wet below 33 ft			17		●	1.8	
			18	4.0		2.6	
Gray, dry, CLAY (CL)	36.0	35	19			3.0	
- brown below 38 ft			20	4.0		1.2	
Bottom of Boring at 40 ft	40.0	40					

Drillers License No. 2581

Depth to Groundwater

- Noted on Drilling Tools 33.0 ft.
- ∇ At Completion (open hole) -- ft.
- ▼ After -- hours -- ft.
- ⊠ Cave Depth -- ft.

- HSA - Hollow Stem Augers
- CFA - Continuous Flight Augers
- HA - Hand Auger
- BLR - Bailer
- BP - Bladder Pump
- PP - Peristaltic Pump
- SP - Submersible Pump

- TPV - Total Photo-Ionization Vapors
- TFV - Total Flame-Ionization Vapors
- PPM - Parts Per Million
- ND - None Detected
- PVC - Polyvinyl Chloride
- NA - Not Analyzed



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-32  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 2/5/18 Boring Method Geoprobe  
 Date Completed 2/5/18 Sampler OD 2.0 in.  
 Drill Foreman Z. Vaughan Inspector J. Buckel

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes	
SURFACE ELEVATION								
Dark to medium brown, dry, coarse, SAND and GRAVEL (GP)	4.0		1			1.8	A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.	
			2	4.0		2.1		
Black, dry, COAL ASH	4.0	5	3			1.0	The soil samples collected from the 0-2 ft and 38-40 ft intervals were submitted for laboratory analysis.	
			4	4.0		0.8		
				5				1.2
		10		6	4.0			1.3
				7				0.4
- dark brown, very fine, silty fly ash below 13 ft	15		8	4.0		1.1		
			9			1.8		
			10	4.0		0.5		
	20		11			0.6		
			12	4.0		0.1		
			13			1.3		
	25		14	4.0		2.1		
			15			1.4		
			16	4.0		1.0		
	30		17			0.7		
			18	4.0		0.5		
- wet with gravel below 34 ft	36.0		19			0.4		
Gray/brown, dry, CLAY (CL)			20	4.0		1.6		
- brown below 38 ft	40.0							
Bottom of Boring at 40 ft			40					

Drillers License No. 2581

Depth to Groundwater

- Noted on Drilling Tools 34.0 ft.
- ▽ At Completion (open hole) -- ft.
- ▽ After -- hours -- ft.
- ⊠ Cave Depth -- ft.

- HSA - Hollow Stem Augers
- CFA - Continuous Flight Augers
- HA - Hand Auger
- BLR - Bailer
- BP - Bladder Pump
- PP - Peristaltic Pump
- SP - Submersible Pump

- TPV - Total Photo-Ionization Vapors
- TFV - Total Flame-Ionization Vapors
- PPM - Parts Per Million
- ND - None Detected
- PVC - Polyvinyl Chloride
- NA - Not Analyzed



CLIENT Ports of Indiana  
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Lawrenceburg, Indiana 47025

BORING # B-33  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 2/5/18 Boring Method Geoprobe  
 Date Completed 2/5/18 Sampler OD 2.0 in.  
 Drill Foreman Z. Vaughan Inspector J. Buckel

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION							
Brown, dry, SAND and GRAVEL (GP)	8.0		1			1.7	A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.
			2	4.0	0.2		
		5	3		13		
			4	4.0	0.5		
Black, dry, COAL ASH	8.0		5			2.0	The soil samples collected from the 0-2 ft and 44-45 ft intervals were submitted for laboratory analysis.
			6	4.0	1.5		
			7		1.0		
		15	8	4.0	2.1		
			9		1.6		
			10	4.0	1.8		
			11		0.6		
- gray, very fine, silty fly ash below 17 ft	8.0		12	4.0	0.2		
			13		0.4		
			14	4.0	0.7		
			15		0.8		
- light tan between 32-36 ft	8.0		16	4.0	1.7		
			17		1.1		
			18	4.0	1.2		
- wet with gravel below 36 ft	8.0		19		0.8		
			20	4.0	0.3		
Brown, dry, SAND (SP)	40.0		21		1.1		
			22	4.0	0.2		
			23		0.4		
- with gravel below 42 ft	40.0						
Bottom of Boring at 45 ft	45.0						

Drillers License No. 2581

Depth to Groundwater

- Noted on Drilling Tools 36.0 ft.
- ▽ At Completion (open hole) -- ft.
- ▽ After -- hours -- ft.
- ⊠ Cave Depth -- ft.

- HSA - Hollow Stem Augers
- CFA - Continuous Flight Augers
- HA - Hand Auger
- BLR - Bailer
- BP - Bladder Pump
- PP - Peristaltic Pump
- SP - Submersible Pump

- TPV - Total Photo-Ionization Vapors
- TFV - Total Flame-Ionization Vapors
- PPM - Parts Per Million
- ND - None Detected
- PVC - Polyvinyl Chloride
- NA - Not Analyzed



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-34  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 2/6/18 Well Material PVC  
 Date Completed 2/6/18 Well Diameter 1.0 in.  
 Drill Foreman Z. Vaughan Screen Length 10 ft  
 Inspector J. Buckel Slot Size 0.010 in.  
 Boring Method Geoprobe Development Method BLR

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	TEST DATA
SURFACE ELEVATION								<p>Sampling Notes</p> <p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 36-38 ft intervals were submitted for laboratory analysis. The duplicate 4 soil sample was collected from the 36-38 ft interval.</p> <p>A temporary well was installed in this boring for the collection of a groundwater sample.</p> <p>Drillers License No. 2581</p>
Gray/brown, dry, very fine, fly ash (COAL ASH)	1.5			1			0.8	
Brown, dry, SAND (SP)		5		2	4.0		1.6	
				3			0.4	
		10		4	4.0		1.1	
				5			1.4	
		15		6	4.0		0.5	
				7			0.6	
		20		8	4.0		1.3	
				9			0.7	
		25		10	4.0		1.3	
				11			2.3	
		30		12	4.0		0.9	
				13			1.7	
		35		14	4.0		1.2	
				15			1.9	
		40		16	4.0		0.2	
				17			1.6	
				18	4.0		1.0	
				19			0.6	
				20	4.0		0.3	
- wet with gravel below 38 ft								
Bottom of Boring at 40 ft	40.0	40						

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater

● Noted on Drilling Tools 38.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ∇ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-36  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 2/6/18 Well Material PVC  
 Date Completed 2/6/18 Well Diameter 1.0 in.  
 Drill Foreman Z. Vaughan Screen Length 10 ft  
 Inspector J. Buckel Slot Size 0.010 in.  
 Boring Method Geoprobe Development Method BLR

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	TEST DATA
SURFACE ELEVATION								
Black, dry, COAL ASH				1			1.7	A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.
				2	4.0		0.9	
		5		3			0.6	
				4	4.0		1.6	
	9.0			5			10.8	
Brown, dry, CLAY (CL)	10.0	10		6	4.0		37.1	The soil samples collected from the 0-2 ft and 12-14 ft intervals were submitted for laboratory analysis.
Brown, dry, SANDY SILT (SM) with some clay				7			57.2	
				8	4.0	●	20.6	
- wet between 14-15 ft		15		9			4.2	
	18.0			10	4.0		1.6	
Dark brown, dry, very fine, silty fly ash (COAL ASH)		20		11			0.8	
				12	4.0		2.0	
				13			1.2	
	26.0	25		14	4.0		0.7	
Brown, dry, coarse, SAND and GRAVEL (GP)				15			0.8	
	30.0	30			2.0			A temporary well was installed in this boring for the collection of a groundwater sample.
Bottom of Boring at 30 ft								Drillers License No. 2581

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater  
 ● Noted on Drilling Tools 14.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ∇ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-37  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 2/6/18 Boring Method Geoprobe  
 Date Completed 2/6/18 Sampler OD 2.0 in.  
 Drill Foreman Z. Vaughan Inspector J. Buckel

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION							
Black, dry, COAL ASH			1			2.1	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 38-40 ft intervals were submitted for laboratory analysis.</p>
			2	4.0		1.2	
		5	3			0.7	
			4	4.0		1.6	
			5			1.3	
		10	6	4.0		0.8	
			7			0.3	
		15	8	4.0		2.7	
- wet below 17 ft			9		●	1.7	
			10	4.0		0.5	
- brown, very fine, silty fly ash below 20 ft		20	11			0.3	
			12	4.0		0.1	
		25	13			1.1	
			14	4.0		0.9	
			15			0.8	
		30	16	4.0		1.7	
			17			2.0	
	34.0		18	4.0		1.4	
Brown, dry, CLAY (CL) with some sand			19			0.9	
			20	4.0		0.3	
Bottom of Boring at 40 ft	40.0	40					

Drillers License No. 2581

Depth to Groundwater

- Noted on Drilling Tools 17.0 ft.
- ▽ At Completion (open hole) -- ft.
- ▽ After -- hours -- ft.
- ⊞ Cave Depth -- ft.

- HSA - Hollow Stem Augers
- CFA - Continuous Flight Augers
- HA - Hand Auger
- BLR - Bailer
- BP - Bladder Pump
- PP - Peristaltic Pump
- SP - Submersible Pump

- TPV - Total Photo-Ionization Vapors
- TFV - Total Flame-Ionization Vapors
- PPM - Parts Per Million
- ND - None Detected
- PVC - Polyvinyl Chloride
- NA - Not Analyzed



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-38  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 2/6/18 Well Material PVC  
 Date Completed 2/6/18 Well Diameter 1.0 in.  
 Drill Foreman Z. Vaughan Screen Length 10 ft  
 Inspector J. Buckel Slot Size 0.010 in.  
 Boring Method Geoprobe Development Method BLR

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	TEST DATA
SURFACE ELEVATION								
Black, dry, COAL ASH				1			1.4	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 38-40 ft intervals were submitted for laboratory analysis.</p> <p>A temporary well was installed in this boring for the collection of a groundwater sample.</p> <p>Drillers License No. 2581</p>
				2	4.0		1.1	
		5		3			1.0	
				4	4.0		1.3	
		10		5			0.3	
				6	4.0		1.6	
		15		7			1.4	
				8	4.0		1.2	
		20		9			2.1	
- wet below 18 ft				10	4.0	●	0.2	
		25		11			0.6	
- dark brown/gray, silty fly ash below 23 ft				12	4.0		0.8	
		30		13			0.0	
				14	4.0		0.1	
		35		15			0.7	
				16	4.0		0.5	
		40		17			1.1	
				18	4.0		0.9	
Brown, dry, CLAY (CL)	36.0			19			0.2	
				20	4.0		1.4	
Bottom of Boring at 40 ft	40.0	40						

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater  
 ● Noted on Drilling Tools 18.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ∇ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump





CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-39  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 4/17/18 Well Material \_\_\_\_\_  
 Date Completed 4/17/18 Well Diameter \_\_\_\_\_ in.  
 Drill Foreman T. Johnson Screen Length \_\_\_\_\_ ft  
 Inspector J. Buckel Slot Size \_\_\_\_\_ in.  
 Boring Method Geoprobe Development Method \_\_\_\_\_

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION								
STONE and GRAVEL Light brown, dry, soft clay with trace gravel (FILL)	0.3			1			0.0	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 28-30 ft intervals were submitted for laboratory analysis. The MS/MSD soil sample was collected from the 28-30 ft interval.</p>
- dark brown below 3.0 ft	4.0			2	2.0		0.0	
Brown, dry, CLAY (CL)		5		3			0.0	
				4	4.0		0.0	
- slightly moist below 8.0 ft		10		5			0.0	
				6	4.0		0.0	
				7			0.1	
		15		8	4.0		0.0	
- black staining between 16-20 ft				9			0.1	
- sticky below 18 ft		20		10	4.0		0.0	
				11			0.4	
		25		12	4.0		0.5	
				13			0.6	
- gray between 28-30 ft		30		14	4.0		0.0	
				15			0.0	
Brown, wet, SAND (SP)	30.0	30		16	4.0	●	0.0	
Gray/brown, wet, CLAY (CL) with trace sand	31.0							
Bottom of Boring at 32 ft	32.0							

Drillers License No. 3034

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater

● Noted on Drilling Tools 30.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ▽ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump



CLIENT Ports of Indiana  
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BORING # B-40  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 4/17/18 Well Material PVC  
 Date Completed 4/17/18 Well Diameter 1.0 in.  
 Drill Foreman T. Johnson Screen Length 5.0 ft  
 Inspector J. Buckel Slot Size 0.010 in.  
 Boring Method Geoprobe Development Method BLR

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
STONE and GRAVEL	0.3			1			0.0	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 32-34 ft intervals were submitted for laboratory analysis.</p> <p>A temporary well was installed in this boring for the collection of a groundwater sample.</p> <p>Drillers License No. 3034</p>
Light brown, dry, soft clay with trace gravel (FILL)				2	2.0		0.0	
- dark brown below 3.0 ft	4.0			3			0.0	
Brown, dry, CLAY (CL)		5		4	4.0		0.0	
- slightly moist below 8.0 ft		10		5			0.0	
		15		6	4.0		0.0	
		20		7			0.0	
		25		8	4.0		0.0	
		30		9			0.0	
- sticky below 18 ft		35		10	4.0		0.0	
		34.0		11			0.1	
		36.0		12	4.0		0.0	
				13			0.0	
				14	4.0		0.1	
				15			0.0	
				16	4.0		0.0	
				17			0.0	
Brown, wet, SAND (SP) with trace gravel				18	2.0	●	0.2	
Bottom of Boring at 36 ft								

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater

● Noted on Drilling Tools 34.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ▽ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-41  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 4/17/18 Well Material \_\_\_\_\_  
 Date Completed 4/17/18 Well Diameter \_\_\_\_\_ in.  
 Drill Foreman T. Johnson Screen Length \_\_\_\_\_ ft  
 Inspector J. Buckel Slot Size \_\_\_\_\_ in.  
 Boring Method Geoprobe Development Method \_\_\_\_\_

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION								
STONE and GRAVEL	0.3			1			0.0	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 24-26 ft intervals were submitted for laboratory analysis.</p>
Light to dark brown, dry, CLAY (CL) with some of gravel				2	2.0		0.0	
- brown with no gravel below 4.0 ft		5		3			0.0	
				4	2.0		0.0	
				5			0.0	
		10		6	4.0		0.0	
				7			0.0	
				8	4.0		0.0	
		15		9			0.0	
				10	4.0		0.0	
				11			0.0	
- loamy clay between 20-23 ft		20		12	4.0		0.0	
Brown, moist, loamy, SAND (SP)	23.0			13			0.0	
- wet with some gravel below 26 ft		25		14	2.0	●	0.0	
Bottom of Boring at 28 ft	28.0							

Drillers License No. 3034

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater

● Noted on Drilling Tools 26.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ▽ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump



CLIENT Ports of Indiana  
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 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-42  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 4/17/18 Well Material \_\_\_\_\_  
 Date Completed 4/17/18 Well Diameter \_\_\_\_\_ in.  
 Drill Foreman T. Johnson Screen Length \_\_\_\_\_ ft  
 Inspector J. Buckel Slot Size \_\_\_\_\_ in.  
 Boring Method Geoprobe Development Method \_\_\_\_\_

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION								
STONE and GRAVEL	0.3			1			0.0	A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.
Brown, dry, CLAY (CL)				2	2.0		0.0	
		5		3			0.0	
				4	4.0		0.0	
				5			0.0	
		10		6	4.0		0.0	The soil samples collected from the 0-2 ft and 18-20 ft intervals were submitted for laboratory analysis.
				7			0.0	
- loamy clay below 14 ft		15		8	4.0		0.0	
- sandy clay loam below 16 ft				9			0.0	
				10	4.0		0.0	
- wet below 20 ft		20		11		●	0.0	
				12	4.0		0.0	
Brown, wet, SAND and GRAVEL (GP)	23.0							
Bottom of Boring at 24 ft	24.0							

Drillers License No. 3034

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater

● Noted on Drilling Tools 20.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ▽ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump



CLIENT Ports of Indiana  
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 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-43  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 4/17/18 Well Material PVC  
 Date Completed 4/17/18 Well Diameter 1.0 in.  
 Drill Foreman T. Johnson Screen Length 5.0 ft  
 Inspector J. Buckel Slot Size 0.010 in.  
 Boring Method Geoprobe Development Method BLR

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION								
TOPSOIL	0.5			1			0.0	A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.
Brown, dry, CLAY (CL)				2	2.0		0.0	
		5		3			0.0	
				4	4.0		0.0	
				5			0.0	
- sticky below 12 ft		10		6	4.0		0.0	The soil samples collected from the 0-2 ft and 18-20 ft intervals were submitted for laboratory analysis.
				7			0.3	
		15		8	4.0		0.6	
Brown, dry, LOAMY SAND (SP)	17.0			9			0.4	A temporary well was installed in this boring for the collection of a groundwater sample.
- wet, coarse sand and gravel below 20 ft				10	4.0		0.4	
		20		11			0.4	
				12	3.0		0.2	
Bottom of Boring at 24 ft	24.0							

Drillers License No. 3034

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater

● Noted on Drilling Tools 20.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ▽ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-44  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 4/17/18 Well Material \_\_\_\_\_  
 Date Completed 4/17/18 Well Diameter \_\_\_\_\_ in.  
 Drill Foreman T. Johnson Screen Length \_\_\_\_\_ ft  
 Inspector J. Buckel Slot Size \_\_\_\_\_ in.  
 Boring Method Geoprobe Development Method \_\_\_\_\_

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION								
STONE and GRAVEL	0.3			1			0.0	A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.
Dark brown, dry, CLAY (CL)				2	2.0		0.0	
- brown below 4.0 ft		5		3			0.0	
				4	4.0		0.0	
				5			0.0	
- sticky sandy clay loam below 10 ft		10		6	4.0		0.0	The soil samples collected from the 0-2 ft and 18-20 ft intervals were submitted for laboratory analysis.
				7			0.0	
		15		8	4.0		0.0	
				9			0.0	
				10	3.0		0.0	
				11		●	0.0	
				12	4.0		0.0	
Brown, wet, fine, SAND (SP)	20.0	20						
- loamy sand below 22 ft								
Bottom of Boring at 24 ft	24.0							

Drillers License No. 3034

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater

● Noted on Drilling Tools 20.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ▽ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump



CLIENT Ports of Indiana  
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Lawrenceburg, Indiana 47025

BORING # B-45  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 4/18/18 Well Material PVC  
 Date Completed 4/18/18 Well Diameter 1.0 in.  
 Drill Foreman T. Johnson Screen Length 5.0 ft  
 Inspector J. Buckel Slot Size 0.010 in.  
 Boring Method Geoprobe Development Method BLR

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
TOPSOIL				1			0.0	A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.
Brown, dry, CLAY (CL)	2.0			2	1.3		0.0	
		5		3			0.0	
				4	3.0		0.0	
				5			0.0	
- slightly moist, sticky, sandy clay loam below 10 ft		10		6	4.0		0.0	
				7			0.0	
		15		8	4.0		0.0	
Brown, wet, LOAMY SAND (SP)	16.0			9		●	0.1	
				10	4.0		0.0	
Bottom of Boring at 20 ft	20.0	20						The soil samples collected from the 0-2 ft and 14-16 ft intervals were submitted for laboratory analysis.
								A temporary well was installed in this boring for the collection of a groundwater sample.

Drillers License No. 3034

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater

● Noted on Drilling Tools 16.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ∇ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump



CLIENT Ports of Indiana  
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 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-46  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 4/18/18 Boring Method Geoprobe  
 Date Completed 4/18/18 Sampler OD 2.0 in.  
 Drill Foreman T. Johnson Inspector J. Buckel

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION							
TOPSOIL Dark brown, dry, CLAY (CL)	0.5		1			0.0	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 26-28 ft intervals were submitted for laboratory analysis.</p>
			2	2.0		0.0	
		5	3			0.0	
			4	4.0		0.0	
			5			0.0	
- brown below 10 ft	10		6	4.0		0.0	
			7			0.0	
	15		8	4.0		0.0	
- sandy clay loam below 17 ft			9			0.0	
	20.0		10	2.9		0.0	
Brown, dry, LOAMY SAND (SP)			11			0.0	
	22.0		12	2.9		0.0	
Brown, dry, SANDY CLAY LOAM (CL)			13			0.0	
	25		14	2.9		0.0	
	28.0		15		●	0.0	
Brown, wet, SANDY LOAM (SP)			16	4.0		0.0	
Bottom of Boring at 32 ft	32.0						

Drillers License No. 3034

Depth to Groundwater

- Noted on Drilling Tools 28.0 ft.
- ∇ At Completion (open hole) -- ft.
- ∇ After -- hours -- ft.
- ⊠ Cave Depth -- ft.

- HSA - Hollow Stem Augers
- CFA - Continuous Flight Augers
- HA - Hand Auger
- BLR - Bailer
- BP - Bladder Pump
- PP - Peristaltic Pump
- SP - Submersible Pump

- TPV - Total Photo-Ionization Vapors
- TFV - Total Flame-Ionization Vapors
- PPM - Parts Per Million
- ND - None Detected
- PVC - Polyvinyl Chloride
- NA - Not Analyzed





CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-47  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 4/18/18 Well Material PVC  
 Date Completed 4/18/18 Well Diameter 1.0 in.  
 Drill Foreman T. Johnson Screen Length 5.0 ft  
 Inspector J. Buckel Slot Size 0.010 in.  
 Boring Method Geoprobe Development Method BLR

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION								
TOPSOIL	1.0			1			0.0	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 26-28 ft intervals were submitted for laboratory analysis.</p> <p>A temporary well was installed in this boring for the collection of a groundwater sample. Drillers License No. 3034</p>
Dark brown, dry, CLAY (CL)				2	2.0		0.0	
		5		3			0.0	
- brown below 6.0 ft				4	4.0		0.0	
				5			0.0	
		10		6	4.0		0.0	
				7			0.0	
- silty clay loam below 14 ft				8	4.0		0.0	
		15		9	4.0		0.0	
	17.0			10	4.0		0.0	
Brown, dry, LOAMY SAND (SP)				11			0.0	
Brown, slightly moist, SILTY CLAY LOAM (CL)	20.0	20		12	4.0		0.0	
Brown, slightly moist, SANDY LOAM (SP)	21.5			13			0.0	
Brown, slightly moist, SILTY CLAY LOAM (CL)	22.5			14	4.0		0.0	
		25		15			0.0	
Gray, wet, SAND (SP)	28.0			16	4.0		0.0	
Gray, wet, SANDY CLAY LOAM (CL)	30.0	30					0.0	
Bottom of Boring at 32 ft	32.0						0.0	

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater

● Noted on Drilling Tools 28.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ▽ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-48  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 4/18/18 Boring Method Geoprobe  
 Date Completed 4/18/18 Sampler OD 2.0 in.  
 Drill Foreman T. Johnson Inspector J. Buckel

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION							
TOPSOIL	1.0		1			0.0	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 22-24 ft intervals were submitted for laboratory analysis. The duplicate 1 soil sample was collected from the 22-24 ft interval.</p>
Brown, dry, CLAY (CL)			2	1.0		0.0	
		5	3			0.0	
			4	4.0		0.0	
			5			0.0	
	10		6	4.0		0.0	
- sandy clay loam below 12 ft			7			0.0	
		15	8	4.0		0.0	
			9			0.0	
			10	4.0		0.0	
		20	11			0.0	
- gray mottling below 20 ft			12	4.0		0.0	
	24.0		13		●	0.0	
Brown, wet, SAND (SP)	26.0	25	14	4.0		0.0	
Brown, wet, GRAVEL (GP) with little sand	28.0						
Bottom of Boring at 28 ft							

Drillers License No. 3034

Depth to Groundwater

- Noted on Drilling Tools 24.0 ft.
- ∇ At Completion (open hole) -- ft.
- ▼ After -- hours -- ft.
- ⊠ Cave Depth -- ft.

- HSA - Hollow Stem Augers
- CFA - Continuous Flight Augers
- HA - Hand Auger
- BLR - Bailer
- BP - Bladder Pump
- PP - Peristaltic Pump
- SP - Submersible Pump

- TPV - Total Photo-Ionization Vapors
- TFV - Total Flame-Ionization Vapors
- PPM - Parts Per Million
- ND - None Detected
- PVC - Polyvinyl Chloride
- NA - Not Analyzed



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-49  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 4/18/18 Boring Method Geoprobe  
 Date Completed 4/18/18 Sampler OD 2.0 in.  
 Drill Foreman T. Johnson Inspector J. Buckel

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION							
STONE and GRAVEL	1.0		1			0.0	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 26-28 ft intervals were submitted for laboratory analysis.</p>
Dark brown, dry, CLAY (CL)			2	3.0		0.0	
		5	3			0.0	
- brown below 6.0 ft			4	4.0		0.0	
			5			0.0	
	10		6	4.0		0.0	
			7			0.0	
- sandy clay between 14-16 ft	15		8	4.0		0.0	
			9			0.0	
- sandy clay loam below 16 ft			10	4.0		0.0	
	20		11			0.0	
			12	4.0		0.0	
	25		13			0.0	
			14	4.0		0.0	
gray and wet below 28 ft			15		●	0.0	
	30		16	4.0		0.0	
Bottom of Boring at 32 ft	32.0						

Drillers License No. 3034

Depth to Groundwater

- Noted on Drilling Tools 28.0 ft.
- ∇ At Completion (open hole) -- ft.
- ▼ After -- hours -- ft.
- ⊠ Cave Depth -- ft.

- HSA - Hollow Stem Augers
- CFA - Continuous Flight Augers
- HA - Hand Auger
- BLR - Bailer
- BP - Bladder Pump
- PP - Peristaltic Pump
- SP - Submersible Pump

- TPV - Total Photo-Ionization Vapors
- TFV - Total Flame-Ionization Vapors
- PPM - Parts Per Million
- ND - None Detected
- PVC - Polyvinyl Chloride
- NA - Not Analyzed



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-50  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 4/18/18 Well Material PVC  
 Date Completed 4/18/18 Well Diameter 1.0 in.  
 Drill Foreman T. Johnson Screen Length 5.0 ft  
 Inspector J. Buckel Slot Size 0.010 in.  
 Boring Method Geoprobe Development Method BLR

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
GRAVEL	0.5			1			0.0	A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.
Dark brown, dry, CLAY (CL)				2	4.0		0.0	
- brown below 4.0 ft		5		3			0.0	
				4	3.0		0.0	
				5			0.0	
- sandy clay loam below 14 ft		10		6	4.0		0.0	The soil samples collected from the 0-2 ft and 22-24 ft intervals were submitted for laboratory analysis.
				7			0.0	
		15		8	4.0		0.0	
				9			0.0	
				10	4.0		0.0	
				11			0.0	
		20		12	4.0		0.0	
				13			0.0	
		25		14	4.0		0.0	
Brown, dry, SANDY LOAM (SP)	18.0						0.0	A temporary well was installed in this boring for the collection of a groundwater sample.
- gray below 23 ft							0.0	
- wet below 24 ft							0.0	
Bottom of Boring at 28 ft	28.0						0.0	Drillers License No. 3034

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater

● Noted on Drilling Tools 24.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ∇ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-51  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 4/18/18 Boring Method Geoprobe  
 Date Completed 4/18/18 Sampler OD 2.0 in.  
 Drill Foreman T. Johnson Inspector J. Buckel

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION							
GRAVEL	0.5		1			0.0	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 14-16 ft intervals were submitted for laboratory analysis.</p>
Dark brown, dry, CLAY (CL)			2	3.0		0.0	
			3			0.0	
		5					
- brown below 6.0 ft			4	4.0		0.0	
			5			0.0	
		10					
- sandy clay loam below 12 ft			6	4.0		0.0	
			7			0.0	
		15					
- wet below 16 ft			8	4.0		0.0	
			9		●	0.0	
			10	4.0		0.0	
Bottom of Boring at 20 ft	20.0	20					

Drillers License No. 3034

Depth to Groundwater

- Noted on Drilling Tools 16.0 ft.
- ∇ At Completion (open hole) -- ft.
- ▼ After -- hours -- ft.
- ⊠ Cave Depth -- ft.

- HSA - Hollow Stem Augers
- CFA - Continuous Flight Augers
- HA - Hand Auger
- BLR - Bailer
- BP - Bladder Pump
- PP - Peristaltic Pump
- SP - Submersible Pump

- TPV - Total Photo-Ionization Vapors
- TFV - Total Flame-Ionization Vapors
- PPM - Parts Per Million
- ND - None Detected
- PVC - Polyvinyl Chloride
- NA - Not Analyzed



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-52  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 4/18/18 Well Material PVC  
 Date Completed 4/18/18 Well Diameter 1.0 in.  
 Drill Foreman T. Johnson Screen Length 5.0 ft  
 Inspector J. Buckel Slot Size 0.010 in.  
 Boring Method Geoprobe Development Method BLR

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION								
GRAVEL	0.5			1			0.0	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 30-32 ft intervals were submitted for laboratory analysis.</p> <p>A temporary well was installed in this boring for the collection of a groundwater sample.</p> <p>Drillers License No. 3034</p>
Dark brown, dry, CLAY (CL)				2	3.0		0.0	
		5		3			0.0	
				4	4.0		0.0	
		10		5			0.0	
- brown between 12-26 ft				6	4.0		0.0	
		15		7			0.0	
				8	4.0		0.0	
		20		9			0.0	
				10	4.0		0.0	
		25		11			0.0	
- gray below 26 ft				12	4.0		0.0	
		30		13			0.0	
				14	4.0		0.0	
- wet silty clay loam below 32 ft				15			0.0	
		35		16	4.0		0.0	
				17			0.0	
Bottom of Boring at 36 ft	36.0			18	4.0		0.0	

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater  
 ● Noted on Drilling Tools 32.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ∇ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-53  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 4/19/18 Boring Method Geoprobe  
 Date Completed 4/19/18 Sampler OD 2.0 in.  
 Drill Foreman T. Johnson Inspector J. Buckel

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION							
GRAVEL	1.0		1			0.0	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 24-26 ft intervals were submitted for laboratory analysis.</p>
Dark brown, dry, CLAY (CL)			2	3.0		0.0	
			3			0.0	
- brown below 4.0 ft		5	4	4.0		0.0	
			5			0.0	
		10	6	4.0		0.0	
			7			0.0	
		15	8	4.0		0.0	
			9			0.0	
		20	10	4.0		0.0	
			11			0.0	
		25	12	4.0		0.0	
			13			0.0	
			14	4.0	●	0.0	
- brown with orange and gray mottling, wet, sandy clay loam below 26 ft	27.0						
Brown, wet, SAND and GRAVEL (GP)	28.0						
Bottom of Boring at 28 ft							

Drillers License No. 3034

Depth to Groundwater

- Noted on Drilling Tools 26.0 ft.
- ▽ At Completion (open hole) -- ft.
- ▽ After -- hours -- ft.
- ⊠ Cave Depth -- ft.

- HSA - Hollow Stem Augers
- CFA - Continuous Flight Augers
- HA - Hand Auger
- BLR - Bailer
- BP - Bladder Pump
- PP - Peristaltic Pump
- SP - Submersible Pump

- TPV - Total Photo-Ionization Vapors
- TFV - Total Flame-Ionization Vapors
- PPM - Parts Per Million
- ND - None Detected
- PVC - Polyvinyl Chloride
- NA - Not Analyzed



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-54  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 4/19/18 Boring Method Geoprobe  
 Date Completed 4/19/18 Sampler OD 2.0 in.  
 Drill Foreman T. Johnson Inspector J. Buckel

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION							
TOPSOIL Light brown, dry, GRAVELLY CLAY (CL)	0.5		1			0.0	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 26-28 ft intervals were submitted for laboratory analysis.</p>
			2	3.0		0.0	
		5	3			0.0	
			4	4.0		0.0	
			5			0.0	
	10		6	4.0		0.0	
			7			0.0	
	15		8	4.0		0.0	
			9			0.0	
	20		10	4.0		0.0	
			11			0.0	
			12	4.0		0.0	
	25		13			0.0	
			14	4.0		0.0	
			15			0.0	
	30		16	4.0		0.0	
Brown, wet, SANDY LOAM (SP)	31.0						
Bottom of Boring at 32 ft	32.0						

Drillers License No. 3034

Depth to Groundwater

- Noted on Drilling Tools 28.0 ft.
- ∇ At Completion (open hole) -- ft.
- ∇ After -- hours -- ft.
- ⊠ Cave Depth -- ft.

- HSA - Hollow Stem Augers
- CFA - Continuous Flight Augers
- HA - Hand Auger
- BLR - Bailer
- BP - Bladder Pump
- PP - Peristaltic Pump
- SP - Submersible Pump

- TPV - Total Photo-Ionization Vapors
- TFV - Total Flame-Ionization Vapors
- PPM - Parts Per Million
- ND - None Detected
- PVC - Polyvinyl Chloride
- NA - Not Analyzed





CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-55  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 4/19/18 Well Material PVC  
 Date Completed 4/19/18 Well Diameter 1.0 in.  
 Drill Foreman T. Johnson Screen Length 5.0 ft  
 Inspector J. Buckel Slot Size 0.010 in.  
 Boring Method Geoprobe Development Method BLR

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	TEST DATA
SURFACE ELEVATION								<p>Sampling Notes</p> <p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 30-32 ft intervals were submitted for laboratory analysis.</p> <p>A temporary well was installed in this boring for the collection of a groundwater sample.</p> <p>Drillers License No. 3034</p>
TOPSOIL	1.0			1			0.0	
Brown, dry, GRAVELLY CLAY (CL)				2	2.0		0.0	
		5		3			0.0	
				4	3.0		0.0	
		10		5			0.0	
- gray between 10-11 ft				6	4.0		0.0	
- black with some organic material between 11-12 ft				7			0.0	
- brown clay below 12 ft		15		8	4.0		0.0	
				9			0.0	
		20		10	4.0		0.0	
				11			0.0	
		25		12	4.0		0.0	
				13			0.0	
- sandy clay below 28 ft				14	4.0		0.0	
		30		15			0.0	
Black, dry, SANDY LOAM (SP) with some organic material	30.0			16	4.0		0.0	
Brown, wet, SAND and GRAVEL (GP)	32.0			17			0.0	
		35		18	4.0		0.0	
Bottom of Boring at 36 ft	36.0						0.0	

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater  
 ● Noted on Drilling Tools 32.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ∇ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-56  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 4/19/18 Well Material PVC  
 Date Completed 4/19/18 Well Diameter 1.0 in.  
 Drill Foreman T. Johnson Screen Length 5.0 ft  
 Inspector J. Buckel Slot Size 0.010 in.  
 Boring Method Geoprobe Development Method BLR

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION								
TOPSOIL	0.5			1			0.0	A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.
Gray, brown, sand and limestone fragments (FILL)				2	2.0		0.0	
		5		3			0.0	
				4	2.0		0.0	
				5			0.0	
Brown, dry, CLAY (CL)	10.0	10		6	3.0		0.0	The soil samples collected from the 0-2 ft and 26-28 ft intervals were submitted for laboratory analysis.
- gray with some organic material between 12-14 ft				7			0.0	
		15		8	4.0		0.0	
				9			0.0	
				10	4.0		0.0	
		20		11			0.0	
Brown, dry, SANDY CLAY (SC)	22.0			12	4.0		0.0	
		25		13			0.0	
Brown, dry, SANDY CLAY LOAM (CL)	26.0			14	4.0		0.0	
		28.0		15			0.0	
Brown, wet, LOAMY SAND (SP)	28.0			16	4.0		0.0	
- sand below 30 ft		30					0.0	
Bottom of Boring at 32 ft	32.0						0.0	A temporary well was installed in this boring for the collection of a groundwater sample.
								Drillers License No. 3034

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater

● Noted on Drilling Tools 28.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ∇ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-57  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 4/19/18 Well Material PVC  
 Date Completed 4/19/18 Well Diameter 1.0 in.  
 Drill Foreman T. Johnson Screen Length 5.0 ft  
 Inspector J. Buckel Slot Size 0.010 in.  
 Boring Method Geoprobe Development Method BLR

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION								
TOPSOIL	0.5			1			0.0	A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.
Brown, dry, CLAY (CL)				2	2.0		0.0	
		5		3			0.0	
				4	4.0		0.0	
				5			0.0	
		10		6	4.0		0.0	
				7			0.0	The soil samples collected from the 0-2 ft and 18-20 ft intervals were submitted for laboratory analysis.
		15		8	4.0		0.0	
Brown, dry, SANDY LOAM (SP)	16.0			9			0.0	
				10	4.0		0.0	
Brown, wet, SAND and GRAVEL (GP)	20.0	20		11		●	0.0	
				12	4.0		0.0	
Bottom of Boring at 24 ft	24.0							A temporary well was installed in this boring for the collection of a groundwater sample.

Drillers License No. 3034

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater

● Noted on Drilling Tools 20.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ∇ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-58  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 4/19/18 Boring Method Geoprobe  
 Date Completed 4/19/18 Sampler OD 2.0 in.  
 Drill Foreman T. Johnson Inspector J. Buckel

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION							
Gravelly TOPSOIL	0.3		1			0.0	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 18-20 ft intervals were submitted for laboratory analysis. The duplicate 2 soil sample was collected from the 18-20 ft interval.</p>
Black, dry, CLAY (CL) with some organics			2	1.0		0.0	
			3			0.0	
		5					
- brown clay with no organics below 6.0 ft			4	4.0		0.0	
			5			0.0	
		10					
			6	4.0		0.0	
			7			0.0	
		15					
- sandy clay loam below 16 ft			8	4.0		0.0	
			9			0.0	
		20					
- gray and wet below 20 ft			10	4.0		0.0	
			11		●	0.0	
	22.0		12	4.0		0.0	
Brown, wet, SAND and GRAVEL (GP)							
	24.0						
Bottom of Boring at 24 ft							

Drillers License No. 3034

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater

● Noted on Drilling Tools 20.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ▼ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 SP - Submersible Pump



CLIENT Ports of Indiana  
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 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-59  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 4/19/18 Well Material PVC  
 Date Completed 4/19/18 Well Diameter 1.0 in.  
 Drill Foreman T. Johnson Screen Length 5.0 ft  
 Inspector J. Buckel Slot Size 0.010 in.  
 Boring Method Geoprobe Development Method BLR

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION								
TOPSOIL Gray, dry, GRAVELLY CLAY (CL)	0.5			1			0.0	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 30-32 ft intervals were submitted for laboratory analysis.</p> <p>A temporary well was installed in this boring for the collection of a groundwater sample.</p> <p>Drillers License No. 3034</p>
				2	2.0		0.0	
ASPHALT Brown, dry, CLAY (CL)	4.0			3			0.0	
	5.0			4	4.0		0.0	
				5			0.0	
				6	4.0		0.0	
- black with some organic material between 11-14 ft				7			0.0	
				8	4.0		0.0	
				9			0.0	
				10	4.0		0.0	
				11			0.0	
				12	4.0		0.0	
				13			0.0	
				14	4.0		0.0	
- sandy clay loam below 28 ft				15			0.0	
				16	4.0		0.0	
Brown, dry, LOAMY SAND and GRAVEL (GP) - wet below 32 ft	31.0			17			0.0	
				18	4.0		0.0	
Bottom of Boring at 36 ft	36.0							

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

**Depth to Groundwater**  
 ● Noted on Drilling Tools 32.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ∇ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump



CLIENT Ports of Indiana  
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 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-60  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 4/20/18 Boring Method Geoprobe  
 Date Completed 4/20/18 Sampler OD 2.0 in.  
 Drill Foreman T. Johnson Inspector J. Buckel

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION							
ASPHALT over fill	1.0		1			0.0	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 36-38 ft intervals were submitted for laboratory analysis.</p> <p>Drillers License No. 3034</p>
Dark brown, dry, CLAY (CL)			2	2.0		0.0	
		5	3			0.0	
			4	4.0		0.0	
			5			0.0	
		10	6	4.0		0.5	
			7			0.0	
			8	4.0		0.4	
- sandy below 16 ft			9			0.2	
			10	4.0		0.2	
		20	11			0.1	
			12	4.0		0.3	
- silty between 24-28 ft			13			0.4	
			14	4.0		0.5	
			15			0.0	
		30	16	4.0		0.6	
			17			1.0	
- sandy clay loam below 34 ft			18	4.0		1.4	
			19			0.5	
- wet below 38 ft			20	4.0	●	0.5	
Bottom of Boring at 40 ft	40.0	40					

Depth to Groundwater

- Noted on Drilling Tools 38.0 ft.
- ∇ At Completion (open hole) -- ft.
- ∇ After -- hours -- ft.
- ⊠ Cave Depth -- ft.

- HSA - Hollow Stem Augers
- CFA - Continuous Flight Augers
- HA - Hand Auger
- BLR - Bailer
- BP - Bladder Pump
- PP - Peristaltic Pump
- SP - Submersible Pump



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-61  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 4/20/18 Well Material PVC  
 Date Completed 4/20/18 Well Diameter 1.0 in.  
 Drill Foreman T. Johnson Screen Length 5.0 ft  
 Inspector J. Buckel Slot Size 0.010 in.  
 Boring Method Geoprobe Development Method BLR

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
ASPHALT over fill	0.5			1			0.0	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 22-24 ft intervals were submitted for laboratory analysis.</p> <p>Strong sulphur odor between 26-28 ft.</p> <p>A temporary well was installed in this boring for the collection of a groundwater sample.</p>
Dark brown, dry, GRAVELLY CLAY (CL)				2	4.0		0.0	
- sandy clay loam between 4-16 ft		5		3			0.0	
				4	4.0		0.4	
				5			0.5	
		10		6	4.0		0.7	
				7			0.4	
		15		8	4.0		0.5	
				9			0.3	
		20		10	4.0		1.0	
				11			0.9	
		24.0		12	2.0		0.7	
Dark brown, wet, LOAMY SAND and GRAVEL (GP)		25		13		●	0.4	
- black below 26 ft				14	3.0		0.8	
Bottom of Boring at 28 ft	28.0							

Drillers License No. 3034

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater  
 ● Noted on Drilling Tools 24.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ∇ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump



CLIENT Ports of Indiana  
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 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-62  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 4/20/18 Boring Method Geoprobe  
 Date Completed 4/20/18 Sampler OD 2.0 in.  
 Drill Foreman T. Johnson Inspector J. Buckel

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION							
ASPHALT over fill	1.0		1			0.4	A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.  The soil samples collected from the 0-2 ft and 14-16 ft intervals were submitted for laboratory analysis.
Dark brown, dry, SANDY CLAY (CL)			2	3.0		0.3	
	4.0		3			0.0	
Dark brown, dry, SANDY LOAM (SP)		5	4	3.0		0.0	
			5			0.1	
		10	6	3.0		0.0	
- loamy sand below 12 ft			7			0.4	
		15	8	4.0		0.2	
- wet below 16 ft			9		●	0.0	
- gray sand below 18 ft			10	4.0		0.0	
Bottom of Boring at 20 ft	20.0	20					

Drillers License No. 3034

Depth to Groundwater

- Noted on Drilling Tools 16.0 ft.
- ∇ At Completion (open hole) -- ft.
- ▼ After -- hours -- ft.
- ⊠ Cave Depth -- ft.

- HSA - Hollow Stem Augers
- CFA - Continuous Flight Augers
- HA - Hand Auger
- BLR - Bailer
- BP - Bladder Pump
- PP - Peristaltic Pump
- SP - Submersible Pump

- TPV - Total Photo-Ionization Vapors
- TFV - Total Flame-Ionization Vapors
- PPM - Parts Per Million
- ND - None Detected
- PVC - Polyvinyl Chloride
- NA - Not Analyzed





CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-63  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 4/23/18 Well Material PVC  
 Date Completed 4/23/18 Well Diameter 1.0 in.  
 Drill Foreman T. Johnson Screen Length 5.0 ft  
 Inspector J. Buckel Slot Size 0.010 in.  
 Boring Method Geoprobe Development Method BLR

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	TEST DATA
SURFACE ELEVATION								
Dark brown/gray, dry, SAND and GRAVEL (GP)				1			0.0	A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.
				2	3.0		0.0	
		5		3			0.0	
				4	3.0		0.0	
		9.0		5			0.0	
Black, dry, COAL ASH		10.0		6	4.0		0.0	<p>The soil samples collected from the 0-2 ft and 34-36 ft intervals were submitted for laboratory analysis. The MS/MSD soil sample was collected from the 34-36 ft interval.</p> <p>A temporary well was installed in this boring for the collection of a groundwater sample.</p> <p>Drillers License No. 3034</p>
Brown, dry, CLAY (CL)				7			0.0	
		15		8	4.0		0.0	
				9			0.0	
		20		10	4.0		0.0	
				11			0.0	
		25		12	4.0		0.0	
				13			0.0	
		30		14	4.0		0.0	
				15			0.0	
		35		16	4.0		0.0	
				17			0.0	
		40.0		18	4.0		0.0	
				19			0.0	
		40		20	4.0		0.0	
Bottom of Boring at 40 ft								

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater  
 ● Noted on Drilling Tools 36.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ∇ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump



CLIENT Ports of Indiana  
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 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-64  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 4/23/18 Boring Method Geoprobe  
 Date Completed 4/23/18 Sampler OD 2.0 in.  
 Drill Foreman T. Johnson Inspector J. Buckel

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION							
Dark brown, dry, SAND and GRAVEL (GP)			1			0.0	A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.
			2	1.0		0.0	
			3			0.0	The soil samples collected from the 0-2 ft and 40-42 ft intervals were submitted for laboratory analysis.
Black, dry, COAL ASH	6.0	5	4	2.0		0.0	
			5			0.0	
		10	6	2.0		0.0	
			7			0.0	
	16.0	15	8	4.0		0.0	
Brown, dry, CLAY (CL)			9			0.0	
- gray, sandy clay loam below 18 ft		20	10	4.0		0.0	
			11			0.0	
		25	12	4.0		0.0	
			13			0.0	
		30	14	4.0		0.0	
			15			0.0	
		35	16	4.0		0.0	
			17			0.0	
		40	18	4.0		0.0	
			19			0.0	
	42.0		20	4.0		0.0	
Gray, wet, LOAMY SAND (SP)			21	2.0	●	0.0	
	44.0		22			0.0	
Bottom of Boring at 44 ft							

Drillers License No. 3034

Depth to Groundwater

- Noted on Drilling Tools 42.0 ft.
- ▽ At Completion (open hole) -- ft.
- ▽ After -- hours -- ft.
- ⊠ Cave Depth -- ft.

- HSA - Hollow Stem Augers
- CFA - Continuous Flight Augers
- HA - Hand Auger
- BLR - Bailer
- BP - Bladder Pump
- PP - Peristaltic Pump
- SP - Submersible Pump

- TPV - Total Photo-Ionization Vapors
- TFV - Total Flame-Ionization Vapors
- PPM - Parts Per Million
- ND - None Detected
- PVC - Polyvinyl Chloride
- NA - Not Analyzed



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-65  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 4/23/18 Well Material PVC  
 Date Completed 4/23/18 Well Diameter 1.0 in.  
 Drill Foreman T. Johnson Screen Length 5.0 ft  
 Inspector J. Buckel Slot Size 0.010 in.  
 Boring Method Geoprobe Development Method BLR

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	TEST DATA
SURFACE ELEVATION								
Dark brown, dry, SAND and GRAVEL (GP)	2.0			1			0.0	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 38-40 ft intervals were submitted for laboratory analysis. The MS/MSD soil sample was collected from the 38-40 ft interval.</p> <p>A temporary well was installed in this boring for the collection of a groundwater sample.</p> <p>Drillers License No. 3034</p>
Brown, dry, CLAY (CL)		5		2	2.0		0.0	
				3			0.0	
				4	4.0		0.0	
- gray with brown mottling, sandy clay between 8-24 ft		10		5			0.0	
- gray coal ash seam between 10-11 ft				6	4.0		0.0	
				7			0.0	
		15		8	4.0		0.0	
				9			0.0	
		20		10	4.0		0.0	
				11			0.0	
		25		12	4.0		0.0	
				13			0.0	
		30		14	4.0		0.0	
				15			0.0	
		35		16	4.0		0.0	
				17			0.0	
		40		18	4.0		0.0	
				19			0.0	
Gray, wet, LOAMY SAND (SP)	40.0	40		20	4.0	●	0.0	
				21			0.0	
Bottom of Boring at 44 ft	44.0			22	2.0		0.0	

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater

● Noted on Drilling Tools 40.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ▽ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-66  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 4/23/18 Well Material PVC  
 Date Completed 4/23/18 Well Diameter 1.0 in.  
 Drill Foreman T. Johnson Screen Length 5.0 ft  
 Inspector J. Buckel Slot Size 0.010 in.  
 Boring Method Geoprobe Development Method BLR

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION								
Dark brown, dry, SAND and GRAVEL (GP)	0.5			1			0.0	A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.
Brown, dry, GRAVELLY CLAY (CL)				2	3.0		0.0	
- sandy clay below 4.0 ft		5		3			0.0	The soil samples collected from the 0-2 ft and 38-40 ft intervals were submitted for laboratory analysis. The duplicate 3 soil sample was collected from the 38-40 ft interval.
				4	4.0		0.0	
- gray below 8.0 ft				5			0.0	
		10		6	4.0		0.0	
				7			0.0	
		15		8	4.0		0.0	
- brown between 16-18 ft				9			0.0	
		20		10	4.0		0.0	
				11			0.0	
		25		12	4.0		0.0	
				13			0.0	
		30		14	4.0		0.0	
				15			0.0	
- sandy clay loam below 32 ft		35		16	4.0		0.0	
				17			0.0	
		40		18	4.0		0.0	
				19			0.0	
		44.0		20	4.0		0.0	
Gray, wet, SANDY LOAM (SP)	40.0			21		●	0.0	
				22	2.0		0.0	
Bottom of Boring at 44 ft	44.0							

A temporary well was installed in this boring for the collection of a groundwater sample.  
 Drillers License No. 3034

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater  
 ● Noted on Drilling Tools 40.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ∇ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-67  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 4/23/18 Well Material PVC  
 Date Completed 4/23/18 Well Diameter 1.0 in.  
 Drill Foreman T. Johnson Screen Length 5.0 ft  
 Inspector J. Buckel Slot Size 0.010 in.  
 Boring Method Geoprobe Development Method BLR

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION								
Dark brown/gray, dry, SAND and GRAVEL (GP)	1.0			1			0.0	A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.
Black, dry, COAL ASH				2	3.0		0.0	
		5		3			0.0	
				4	2.0		0.0	
Brown, dry, SANDY CLAY (CL)	8.0			5			0.0	The soil samples collected from the 0-2 ft and 20-22 ft intervals were submitted for laboratory analysis.
		10		6	3.0		0.0	
- gravelly below 12 ft				7			0.0	
		15		8	4.0		0.0	
Gray, dry, GRAVELLY LOAMY SAND (SP)	16.0			9			0.0	
- black below 18 ft				10	4.0		0.0	
Gray, dry, GRAVELLY SANDY CLAY LOAM (CL)	20.0			11			0.0	
- wet below 22 ft		20		12	4.0		0.0	
Bottom of Boring at 24 ft	24.0							A temporary well was installed in this boring for the collection of a groundwater sample.

Drillers License No. 3034

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater

● Noted on Drilling Tools 22.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ∇ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-68  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 4/24/18 Well Material PVC  
 Date Completed 4/24/18 Well Diameter 1.0 in.  
 Drill Foreman T. Johnson Screen Length 5.0 ft  
 Inspector J. Buckel Slot Size 0.010 in.  
 Boring Method Geoprobe Development Method BLR

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION								
Black and brown, dry, SAND and GRAVEL (GP)	0.5			1			0.0	A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.
Brown, dy, CLAY (CL)				2	2.0		0.0	
- gray, gravelly clay below 4.0 ft		5		3			0.0	
				4	4.0		0.0	
				5			0.0	
		10		6	4.0		0.0	
				7			0.0	
		15		8	4.0		0.0	
				9			0.0	
		20		10	4.0		0.0	
- sandy clay below 20 ft				11			0.0	
		25		12	4.0		0.0	
				13			0.0	
		30		14	4.0		0.0	
				15			0.0	
		35		16	4.0		0.0	
				17			0.0	
		40		18	4.0		0.0	
				19			0.0	
		45		20	4.0		0.0	
- brown with trace organic matter below 44 ft				21			0.0	
				22	4.0		0.0	
		50		23			0.0	
- wet, sandy clay loam below 48 ft				24	4.0		0.0	
				25			0.0	
		52.0		26	4.0		0.0	
Bottom of Boring at 52 ft							0.0	

Drillers License No. 3034

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater

● Noted on Drilling Tools 48.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ∇ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-69  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 4/24/18 Boring Method Geoprobe  
 Date Completed 4/24/18 Sampler OD 2.0 in.  
 Drill Foreman T. Johnson Inspector J. Buckel

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION							
Black, dry, TOPSOIL with some sand	0.5		1			0.0	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 18-20 ft intervals were submitted for laboratory analysis.</p>
Light brown, dry, SAND and GRAVEL (GP)			2	3.0		0.0	
			3			0.0	
		5	4	3.0		0.0	
			5			0.0	
		10	6	4.0		0.0	
Gray, dry, GRAVELLY CLAY (CL) and black/gray coal ash with some organic material	11.0		7			0.0	
			8	4.0		0.0	
		15	9			0.0	
			10	4.0		0.0	
		20	11		●	0.0	
Gray, wet, very fine, fly ash (COAL ASH)	20.0		12	4.0		0.0	
Bottom of Boring at 24 ft	24.0						

Drillers License No. 3034

Depth to Groundwater

- Noted on Drilling Tools 20.0 ft.
- ∇ At Completion (open hole) -- ft.
- ∇ After -- hours -- ft.
- ⊠ Cave Depth -- ft.

- HSA - Hollow Stem Augers
- CFA - Continuous Flight Augers
- HA - Hand Auger
- BLR - Bailer
- BP - Bladder Pump
- PP - Peristaltic Pump
- SP - Submersible Pump

- TPV - Total Photo-Ionization Vapors
- TFV - Total Flame-Ionization Vapors
- PPM - Parts Per Million
- ND - None Detected
- PVC - Polyvinyl Chloride
- NA - Not Analyzed



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-70  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 4/24/18 Boring Method Geoprobe  
 Date Completed 4/24/18 Sampler OD 2.0 in.  
 Drill Foreman T. Johnson Inspector J. Buckel

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION							
Black and brown, dry, SAND and GRAVEL (GP)			1			0.0	A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.
			2	1.0		0.0	
			3			0.0	
			4	3.0		0.0	
			5			0.0	
Gray, dry, GRAVELLY CLAY (CL) and black coal ash with some organic material	11.0		6	3.0		0.0	The soil samples collected from the 0-2 ft and 24-26 ft intervals were submitted for laboratory analysis. The duplicate 4 soil sample was collected from the 24-26 ft interval.
			7			0.0	
			8	3.0		0.0	
			9			0.0	
	15		10	2.0		0.0	
			11			0.0	
			12	4.0		0.0	
			13			0.0	
	25		14	4.0		0.0	
- wet, gravelly, and clayey below 26 ft	28.0						
Bottom of Boring at 28 ft							

Drillers License No. 3034

Depth to Groundwater

- Noted on Drilling Tools 26.0 ft.
- ▽ At Completion (open hole) -- ft.
- ▽ After -- hours -- ft.
- ⊠ Cave Depth -- ft.

- HSA - Hollow Stem Augers
- CFA - Continuous Flight Augers
- HA - Hand Auger
- BLR - Bailer
- BP - Bladder Pump
- PP - Peristaltic Pump
- SP - Submersible Pump

- TPV - Total Photo-Ionization Vapors
- TFV - Total Flame-Ionization Vapors
- PPM - Parts Per Million
- ND - None Detected
- PVC - Polyvinyl Chloride
- NA - Not Analyzed





CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-71  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 4/24/18 Well Material PVC  
 Date Completed 4/24/18 Well Diameter 1.0 in.  
 Drill Foreman T. Johnson Screen Length 5.0 ft  
 Inspector J. Buckel Slot Size 0.010 in.  
 Boring Method Geoprobe Development Method BLR

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION								
Black and gray, dry, SAND and GRAVEL (GP)	0.5			1			0.0	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 42-44 ft intervals were submitted for laboratory analysis. The MS/MSD soil sample was collected from the 42-44 ft interval.</p> <p>A temporary well was installed in this boring for the collection of a groundwater sample.</p> <p>Drillers License No. 3034</p>
Gray, dry, SANDY CLAY (CL)				2	3.0		0.0	
		5		3			0.0	
				4	3.0		0.0	
- brown between 8-10 ft		10		5	4.0		0.0	
				6	4.0		0.0	
		15		7	4.0		0.0	
				8	4.0		0.0	
		20		9	4.0		0.0	
				10	4.0		0.0	
		25		11	4.0		0.0	
				12	4.0		0.0	
		30		13	4.0		0.0	
				14	4.0		0.0	
- brown between 28-30 ft		35		15	4.0		0.3	
				16	4.0		0.0	
		40		17	4.0		0.0	
				18	4.0		0.0	
- brown with trace coal between 36-40 ft		45		19	4.0		0.0	
				20	4.0		0.2	
		50		21	4.0		0.2	
				22	4.0		0.5	
Brown, wet, LOAMY SAND (SP)	44.0			23	4.0	●	0.0	
		55		24	4.0		0.0	
Bottom of Boring at 48 ft	48.0							

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater  
 ● Noted on Drilling Tools 44.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ∇ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-72  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 4/24/18 Well Material PVC  
 Date Completed 4/24/18 Well Diameter 1.0 in.  
 Drill Foreman T. Johnson Screen Length 5.0 ft  
 Inspector J. Buckel Slot Size 0.010 in.  
 Boring Method Geoprobe Development Method BLR

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION								
Black/brown/gray, dry, SAND and GRAVEL (GP) with trace organic matter				1			0.1	A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.
- clayey below 4.0 ft		5		2	2.0		0.1	
				3			0.0	
	8.0			4	2.0		0.0	
				5			0.0	
Brown with gray mottling, dry, CLAY (CL)		10		6	3.0		0.0	The soil samples collected from the 0-2 ft and 46-48 ft intervals were submitted for laboratory analysis.
				7			0.0	
		15		8	4.0		0.0	
				9			0.0	
		20		10	4.0		0.0	
				11			0.0	
		25		12	4.0		0.0	
- sandy between 24-28 ft				13			0.0	
- gray between 24-36 ft				14	4.0		0.0	
		30		15			0.0	
				16	4.0		0.0	
		35		17			0.0	
- dark gray mottling below 32 ft				18	4.0		0.0	
				19			0.0	
- brown sandy silty clay below 36 ft				20	4.0		0.0	
		40		21			0.0	
- not silty below 36 ft				22	4.0		0.0	
		45		23			0.0	
				24	4.0		0.0	
	48.0			25			0.0	
Brown, wet, LOAMY SAND (SP)		50		26	2.0		0.0	
							0.0	
Bottom of Boring at 52 ft	52.0						0.0	

A temporary well was installed in this boring for the collection of a groundwater sample.  
 Drillers License No. 3034

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater  
 ● Noted on Drilling Tools 48.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ∇ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-73  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 4/24/18 Boring Method Geoprobe  
 Date Completed 4/24/18 Sampler OD 2.0 in.  
 Drill Foreman T. Johnson Inspector J. Buckel

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION							
Black/brown/gray, dry, SAND and GRAVEL			1			0.0	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 34-36 ft intervals were submitted for laboratory analysis.</p> <p>Drillers License No. 3034</p>
			2	2.0		0.0	
			3			0.0	
			4	2.0		0.0	
	8.0		5			0.0	
Gray with slight brown mottling, dry, CLAY (CL)			6	4.0		0.0	
			7			0.0	
			8	4.0		0.0	
- no brown mottling and sandy below 16 ft			9			0.0	
			10	4.0		0.0	
			11			0.0	
			12	4.0		0.0	
			13			0.0	
			14	4.0		0.0	
			15			0.0	
			16	4.0		0.0	
- sandy clay loam between 33-35 ft			17			0.0	
			18	4.0		0.0	
Brown, wet, LOAMY SAND (SP)	36.0		19		●	0.0	
			20	4.0		0.0	
Bottom of Boring at 40 ft	40.0		40				

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater

● Noted on Drilling Tools 36.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ▼ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 SP - Submersible Pump



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-74  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 4/25/18 Well Material PVC  
 Date Completed 4/25/18 Well Diameter 1.0 in.  
 Drill Foreman T. Johnson Screen Length 5.0 ft  
 Inspector J. Buckel Slot Size 0.010 in.  
 Boring Method Geoprobe Development Method BLR

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	TEST DATA
SURFACE ELEVATION								
Black, dry, TOPSOIL and sand	0.5			1			0.0	A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.
Gray, dry, SAND and GRAVEL (GP)				2	3.0		0.0	
- black between 3-4 ft		5		3			0.0	
- brown below 4 ft				4	2.0		0.0	
	8.0			5			0.0	
Gray with slight brown mottling, dry, SANDY CLAY (CL)				6	4.0		0.0	The soil samples collected from the 0-2 ft and 34-36 ft intervals were submitted for laboratory analysis.
				7			0.0	
				8	4.0		0.0	
				9			0.0	
				10	4.0		0.0	
				11			0.0	
				12	4.0		0.0	
				13			0.0	
				14	4.0		0.0	
				15			0.0	
- trace gravel between 26-28 ft				16	4.0		0.0	A temporary well was installed in this boring for the collection of a groundwater sample.
				17			0.0	
				18	4.0		0.0	
				19			0.0	
				20	4.0		0.0	
Gray, wet, LOAMY SAND (SP)	36.0						0.0	Drillers License No. 3034
- brown below 38 ft	40.0	40					0.0	
Bottom of Boring at 40 ft								

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater

● Noted on Drilling Tools 36.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ∇ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-75  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 4/25/18 Boring Method Geoprobe  
 Date Completed 4/25/18 Sampler OD 2.0 in.  
 Drill Foreman T. Johnson Inspector J. Buckel

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION							
Black and gray, dry, SAND and GRAVEL (GP)			1			0.0	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 10-12 ft intervals were submitted for laboratory analysis.</p>
- brown and clayey below 4 ft			2	3.0		0.0	
			3			0.0	
		5	4	2.0		0.0	
		8.0	5			0.0	
Gray, moist, GRAVELLY CLAY (CL)			6	2.0		0.0	
- wet sandy clay and black coal ash below 12 ft			7		●	0.0	
			8	2.0		0.0	
		15					
Bottom of Boring at 16 ft	16.0						

Drillers License No. 3034

Depth to Groundwater

- Noted on Drilling Tools 12.0 ft.
- ∇ At Completion (open hole) -- ft.
- ▼ After -- hours -- ft.
- ⊠ Cave Depth -- ft.

- HSA - Hollow Stem Augers
- CFA - Continuous Flight Augers
- HA - Hand Auger
- BLR - Bailer
- BP - Bladder Pump
- PP - Peristaltic Pump
- SP - Submersible Pump

- TPV - Total Photo-Ionization Vapors
- TFV - Total Flame-Ionization Vapors
- PPM - Parts Per Million
- ND - None Detected
- PVC - Polyvinyl Chloride
- NA - Not Analyzed



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-76  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 6/18/18 Boring Method Geoprobe  
 Date Completed 6/18/18 Sampler OD 2.0 in.  
 Drill Foreman Z. Vaughan Inspector J. Buckel

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION							
Grass over TOPSOIL	0.3		1			0.0	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 48-50 ft intervals were submitted for laboratory analysis.</p> <p>Drillers License No. 2581</p>
Brown, dry, CLAY (CL)			2	4.0		0.0	
		5	3			0.0	
			4	4.0		0.0	
		10	5			0.0	
			6	4.0		0.0	
		15	7			0.0	
			8	4.0		0.0	
Brown, dry, SAND (SP) with little gravel	16.5		9			0.0	
Brown, dry, CLAY (CL)	17.0		10	4.0		0.0	
		20	11			0.0	
			12	4.0		0.0	
		25	13			0.0	
			14	4.0		0.0	
		30	15			0.0	
			16	4.0		0.0	
		35	17			0.0	
			18	4.0		0.0	
		40	19			0.0	
			20	4.0		0.0	
		45	21			0.0	
			22	4.0		0.0	
		50.0	23			0.0	
			24	4.0		0.0	
			25	2.0		0.0	
Bottom of Boring at 50 ft							

- dark brown between 33-35 ft

Depth to Groundwater

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

● Noted on Drilling Tools -- ft.  
 ∇ At Completion (open hole) -- ft.  
 ▼ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 SP - Submersible Pump



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-77  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 6/18/18 Well Material PVC  
 Date Completed 6/18/18 Well Diameter 1.0 in.  
 Drill Foreman Z. Vaughan Screen Length 10 ft  
 Inspector J. Buckel Slot Size 0.010 in.  
 Boring Method Geoprobe Development Method BLR

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION								
Grass over TOPSOIL	0.3			1			0.0	A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.
Brown, dry, CLAY (CL)				2	4.0		0.0	
		5		3			0.0	
				4	4.0		0.0	
				5			0.0	
		10		6	4.0		0.0	
				7			0.0	
		15		8	4.0		0.0	
				9			0.0	
- with some sand between 19-20 ft		20		10	4.0		0.0	
				11			0.0	
		25		12	4.0		0.0	
				13			0.0	
		30		14	4.0		0.0	
				15			0.0	
		35		16	4.0		0.0	
- dark brown between 33-35 ft				17			0.0	
Brown, wet, SILTY SAND (SM) with little gravel	35.0			18	4.0	●	0.0	
Brown, dry, CLAY (CL)	36.0			19			0.0	
		40		20	4.0		0.0	
				21			0.0	
		45		22	4.0		0.0	
				23	1.0		0.0	
Bottom of Boring at 45 ft		45						

The soil samples collected from the 0-2 ft and 32-34 ft intervals were submitted for laboratory analysis.

A temporary well was installed for the collection of a groundwater sample.

Drillers License No. 2581

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater  
 ● Noted on Drilling Tools 35.0 ft.  
 ∇ At Completion (open hole) 33.8 ft.  
 ∇ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-78  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 6/18/18 Boring Method Geoprobe  
 Date Completed 6/18/18 Sampler OD 2.0 in.  
 Drill Foreman Z. Vaughan Inspector J. Buckel

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION							
TOPSOIL/GRAVEL	0.3		1			0.0	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 48-50 ft intervals were submitted for laboratory analysis.</p> <p>Drillers License No. 2581</p>
Brown, dry, CLAY (CL)			2	4.0		0.0	
		5	3			0.0	
			4	4.0		0.0	
			5			0.0	
		10	6	4.0		0.0	
			7			0.0	
			8	4.0		0.0	
			9			0.0	
- with little sand between 17-18 ft			10	4.0		0.0	
			11			0.0	
			12	4.0		0.0	
			13			0.0	
		25	14	4.0		0.0	
			15			0.0	
			16	4.0		0.0	
			17			0.0	
- dark brown between 33-35 ft			18	4.0		0.0	
			19			0.0	
			20	4.0		0.0	
			21			0.0	
			22	4.0		0.0	
			23			0.0	
			24	4.0		0.0	
			25			0.0	
Bottom of Boring at 50 ft	50.0	50		2.0		0.0	

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater

● Noted on Drilling Tools -- ft.  
 ∇ At Completion (open hole) -- ft.  
 ▼ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 SP - Submersible Pump





CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-79  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 6/19/18 Well Material PVC  
 Date Completed 6/19/18 Well Diameter 1.0 in.  
 Drill Foreman Z. Vaughan Screen Length 10 ft  
 Inspector J. Buckel Slot Size 0.010 in.  
 Boring Method Geoprobe Development Method BLR

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION								
Sand and gravel FILL				1			0.0	A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.
				2	2.0		0.0	
				3			0.0	
- with trace clay between 6-10 ft				4	4.0		0.0	
				5			0.0	
Brown, wet, coarse, SAND and GRAVEL (GP) - with some coal between 10-12 ft	9.0	10		6	4.0		0.0	The soil samples collected from the 0-2 ft and 6-8 ft intervals were submitted for laboratory analysis.
				7			0.0	
Dark brown, dry, CLAY (CL)	12.0	15		8	4.0		0.0	
				9			0.0	
				10	4.0		0.0	
Bottom of Boring at 20 ft	20.0	20						A temporary well was installed for the collection of a groundwater sample.

Drillers License No. 2581

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater

● Noted on Drilling Tools 9.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ▼ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-80  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 6/19/18 Well Material PVC  
 Date Completed 6/19/18 Well Diameter 1.0 in.  
 Drill Foreman Z. Vaughan Screen Length 10 ft  
 Inspector J. Buckel Slot Size 0.010 in.  
 Boring Method Geoprobe Development Method BLR

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	TEST DATA
SURFACE ELEVATION								Sampling Notes
Sand and gravel FILL - black between 1-2 ft				1			16.5	
				2	4.0		0.0	
		5		3			0.0	
				4	2.0		0.0	
				5			0.0	
- with trace clay and coarse sand between 8-10 ft	10.0	10		6	4.0		0.0	The soil samples collected from the 0-2 ft and 34-36 ft intervals were submitted for laboratory analysis.
Gray, dry CLAY (CL)				7			0.0	
		15		8	4.0		0.0	
				9			0.0	
		20		10	4.0		0.0	
- with trace sand between 19-20 ft				11			0.0	
		25		12	4.0		0.0	
- with orange mottling between 22-25 ft				13			0.0	
		30		14	4.0		0.0	
- sandy clay below 25 ft				15			0.0	
		35		16	4.0		0.0	
				17			0.0	
		40.0		18	4.0		0.0	
				19			0.0	
		40		20	4.0		0.0	
- wet with some sand between 38-40 ft				21			0.0	
Bottom of Boring at 40 ft								A temporary well was installed for the collection of a groundwater sample.

Drillers License No. 2581

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater

● Noted on Drilling Tools 37.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ∇ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-81  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 6/19/18 Well Material PVC  
 Date Completed 6/19/18 Well Diameter 1.0 in.  
 Drill Foreman Z. Vaughan Screen Length 10 ft  
 Inspector J. Buckel Slot Size 0.010 in.  
 Boring Method Geoprobe Development Method BLR

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION								
Sand and gravel FILL - with trace red brick between 2-3 ft				1			0.0	A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.
				2	4.0		0.0	
				3			0.0	
				4	4.0		0.0	
				5			0.0	
	12.0			6	4.0		0.0	The soil samples collected from the 0-2 ft and 16-18 ft intervals were submitted for laboratory analysis. Hydrocarbon odor between 16-18 ft.
Brown, dry, SAND (SP)				7			0.0	
Gray, moist, SILTY SAND (SM)	14.0			8	4.0		5.7	Hydrocarbon odor between 20-22 ft.
Brown, dry, SAND (SP) with some gravel	15.0			9			277	
				10	4.0		165	
				11			205	A temporary well was installed for the collection of a groundwater sample.
				12	4.0		37.8	
Gray with brown mottling, dry, CLAY (CL)	23.0			13			14.8	
Gray, wet, coarse, SAND and GRAVEL (GP)	25.0			14	4.0		5.0	
Gray, dry, SANDY CLAY (CL)	26.0			15			2.0	
Bottom of Boring at 30 ft	30.0	30			2.0			

Drillers License No. 2581

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater

● Noted on Drilling Tools 25.0 ft.  
 ∇ At Completion (open hole) -- ft.  
 ∇ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-82  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 6/19/18 Boring Method Geoprobe  
 Date Completed 6/19/18 Sampler OD 2.0 in.  
 Drill Foreman Z. Vaughan Inspector J. Buckel

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION							
Sand and gravel FILL	0.3		1			0.0	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>Black staining and hydrocarbon odor between 7-10 ft.</p> <p>The soil samples collected from the 0-2 ft and 6-8 ft intervals were submitted for laboratory analysis. The duplicate 1 soil sample was collected from the 0-2 ft interval.</p>
CONCRETE	1.0						
Clay FILL			2	4.0		4.2	
			3			5.7	
- sand and gravel fill between 5-6 ft	5						
Gray, wet, coarse, SAND AND GRAVELL (GP)	6.0		4	4.0		368	
Dark brown, dry, CLAY (CL)	7.0		5			210	
			6	4.0		30.6	
			7			5.7	
			8	3.0		2.6	
Botom of Boring at 15 ft	15.0	15					

Drillers License No. 2581

Depth to Groundwater

- Noted on Drilling Tools 7.0 ft.
- ∇ At Completion (open hole) -- ft.
- ▼ After -- hours -- ft.
- ⊠ Cave Depth -- ft.

- HSA - Hollow Stem Augers
- CFA - Continuous Flight Augers
- HA - Hand Auger
- BLR - Bailer
- BP - Bladder Pump
- PP - Peristaltic Pump
- SP - Submersible Pump

- TPV - Total Photo-Ionization Vapors
- TFV - Total Flame-Ionization Vapors
- PPM - Parts Per Million
- ND - None Detected
- PVC - Polyvinyl Chloride
- NA - Not Analyzed



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-83  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 6/19/18 Well Material PVC  
 Date Completed 6/19/18 Well Diameter 1.0 in.  
 Drill Foreman Z. Vaughan Screen Length 10 ft  
 Inspector J. Buckel Slot Size 0.010 in.  
 Boring Method Geoprobe Development Method BLR

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	TEST DATA
SURFACE ELEVATION								
Sand and gravel FILL with trace concrete - with coal ash between 2-3 ft				1			7.8	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 8-10 ft intervals were submitted for laboratory analysis.</p> <p>A temporary well was installed for the collection of a groundwater sample.</p> <p>Drillers License No. 2581</p>
				2	2.0		34.6	
		5		3			42.4	
				4	4.0		0.0	
				5			1192	
	12.0	10		6	4.0		725	
Black, dry, COAL ASH with trace black silt				7			5.8	
		15		8	4.0		3.3	
				9			0.4	
		20		10	4.0		3.7	
				11			3.5	
		25		12	4.0		0.0	
				13			0.0	
		30		14	4.0		0.0	
- wet below 30 ft				15			0.0	
		35		16	4.0	●	0.0	
				17		∇	0.0	
		40		18	4.0		0.0	
				19			0.0	
				20	4.0		0.0	
Bottom of Boring at 30 ft	40.0	40		21				

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater

● Noted on Drilling Tools 30.0 ft.  
 ∇ At Completion (open hole) 31.1 ft.  
 ∇ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-84  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 6/20/18 Boring Method Geoprobe  
 Date Completed 6/20/18 Sampler OD 2.0 in.  
 Drill Foreman Z. Vaughan Inspector J. Buckel

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION							
Sand and gravel FILL			1			0.0	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 26-28 ft intervals were submitted for laboratory analysis.</p>
			2	4.0		0.0	
			3	5		0.0	
			4	4.0		0.0	
			5			0.0	
Gray, dry, SAND (SP)	13.0		6	4.0		0.0	
			7			0.0	
			8	4.0		0.0	
			9			0.0	
			10	4.0		0.0	
			11			0.0	
Black, dry, COAL ASH	22.0		12	4.0		0.0	
			13			0.0	
			14	4.0		0.0	
			15			0.0	
- wet below 28 ft					0.0		
Bottom of Boring at 30 ft	30.0	30		2.0		0.0	

Drillers License No. 2581

Depth to Groundwater

- Noted on Drilling Tools 28.0 ft.
- ∇ At Completion (open hole) -- ft.
- ▼ After -- hours -- ft.
- ⊠ Cave Depth -- ft.

- HSA - Hollow Stem Augers
- CFA - Continuous Flight Augers
- HA - Hand Auger
- BLR - Bailer
- BP - Bladder Pump
- PP - Peristaltic Pump
- SP - Submersible Pump

- TPV - Total Photo-Ionization Vapors
- TFV - Total Flame-Ionization Vapors
- PPM - Parts Per Million
- ND - None Detected
- PVC - Polyvinyl Chloride
- NA - Not Analyzed



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-85  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 6/20/18 Well Material PVC  
 Date Completed 6/20/18 Well Diameter 1.0 in.  
 Drill Foreman Z. Vaughan Screen Length 10 ft  
 Inspector J. Buckel Slot Size 0.010 in.  
 Boring Method Geoprobe Development Method BLR

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION								
Sand and gravel FILL with concrete and little coal ash				1			0.0	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 20-22 ft intervals were submitted for laboratory analysis.</p> <p>A temporary well was installed for the collection of a groundwater sample.</p> <p>Drillers License No. 2581</p>
				2	4.0		0.0	
				3			0.0	
				4	4.0		1.0	
				5			2.3	
				6	4.0		0.0	
Gray, dry, CLAYEY SAND (SC) with trace gravel	12.0			7			0.0	
				8	4.0		0.0	
				9			0.0	
				10	4.0	▽	0.0	
				11			0.6	
				12	4.0	●	0.0	
				13			0.0	
				14	4.0		0.0	
				15			0.0	
Brown, dry, CLAY (CL)	28.0							
Bottom of Boring at 30 ft	30.0	30			2.0			

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater  
 ● Noted on Drilling Tools 23.0 ft.  
 ▽ At Completion (open hole) 19.6 ft.  
 ▽ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-86  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 6/20/18 Boring Method Geoprobe  
 Date Completed 6/20/18 Sampler OD 2.0 in.  
 Drill Foreman Z. Vaughan Inspector J. Buckel

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	TEST DATA
SURFACE ELEVATION							Sampling Notes
Sand and gravel FILL with concrete and coal ash			1			0.0	
			2	4.0		0.0	
			3			0.0	
		5	4	4.0		0.0	
			5			0.0	
	10		6	4.0		0.0	
	12.0		7			0.0	
Black, dry, SAND (SP) and coal ash			8	4.0		0.0	
			9			0.0	
			10	4.0		0.0	
	20.0		11			0.0	
Gray, dry, CLAYEY SAND (SC) with some gravel			12	4.0		0.0	
			13			0.0	
		25	14	4.0	●	0.0	
- wet below 27 ft			15			0.0	
	29.0		16	4.0		0.0	
Brown, dry, CLAY (CL)			17			0.0	
			18	3.0		0.0	
Bottom of Boring at 35 ft	35.0						

Drillers License No. 2581

Depth to Groundwater

- Noted on Drilling Tools 27.0 ft.
- ▽ At Completion (open hole) -- ft.
- ▽ After -- hours -- ft.
- ⊠ Cave Depth -- ft.

- HSA - Hollow Stem Augers
- CFA - Continuous Flight Augers
- HA - Hand Auger
- BLR - Bailer
- BP - Bladder Pump
- PP - Peristaltic Pump
- SP - Submersible Pump

- TPV - Total Photo-Ionization Vapors
- TFV - Total Flame-Ionization Vapors
- PPM - Parts Per Million
- ND - None Detected
- PVC - Polyvinyl Chloride
- NA - Not Analyzed





CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-87  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 6/20/18 Well Material PVC  
 Date Completed 6/20/18 Well Diameter 1.0 in.  
 Drill Foreman Z. Vaughan Screen Length 10 ft  
 Inspector J. Buckel Slot Size 0.010 in.  
 Boring Method Geoprobe Development Method BLR

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION								
No recovery				1			0.0	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 5-6 ft and 40-42 ft intervals were submitted for laboratory analysis.</p> <p>A temporary well was installed in this boring for the collection of a groundwater sample.            Drillers License No. 2581</p>
				2	0.0		0.0	
Gray, dry, SAND (SP)	5.0	5		3			0.0	
				4	3.0		0.0	
				5			0.0	
				6	4.0		0.0	
				7			0.0	
- brown between 10-12 ft	16.0	15		8	4.0		0.0	
				9			0.0	
				10	4.0		0.0	
				11			0.0	
				12	4.0		0.0	
				13			0.0	
				14	4.0		0.0	
				15			0.0	
				16	4.0		0.0	
				17			0.0	
Gray, dry, CLAY (CL)	35	30		18	4.0		0.0	
				19			0.0	
				20	4.0		0.0	
				21			0.0	
				22	4.0		0.0	
				23			0.0	
				24	4.0		0.0	
- brown below 37 ft	43.0	45		25	2.0		0.0	
							0.0	
							0.0	
Gray, wet, CLAYEY SAND (SC)	50.0	50		22	4.0	●	0.0	
				23			0.0	
- with trace gray sand between 46-47 ft				24	4.0		0.0	
				25	2.0		0.0	
Bottom of Boring at 50 ft								

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater  
 ● Noted on Drilling Tools 43.0 ft.  
 ∇ At Completion (open hole) 40.2 ft.  
 ∇ After -- hours -- ft.  
 ☒ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump



CLIENT Ports of Indiana  
 PROJECT NAME Former AEP Tanner's Creek Generating Station  
 PROJECT LOCATION 800 AEP Drive  
Lawrenceburg, Indiana 47025

BORING # B-88  
 JOB # 170EM00522

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 6/20/18 Well Material PVC  
 Date Completed 6/20/18 Well Diameter 1.0 in.  
 Drill Foreman Z. Vaughan Screen Length 10 ft  
 Inspector J. Buckel Slot Size 0.010 in.  
 Boring Method Geoprobe Development Method BLR

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION								
Sand and gravel FILL				1			0.0	<p>A hand-auger was used to advance the first five feet of the boring to reduce the possibility of damaging unidentified underground utilities.</p> <p>The soil samples collected from the 0-2 ft and 40-42 ft intervals were submitted for laboratory analysis.</p> <p>A temporary well was installed in this boring for the collection of a groundwater sample.            Drillers License No. 2581</p>
				2	2.0		0.0	
Gray, dry, SAND (SP)	5.0	5		3			0.0	
				4	4.0		0.0	
				5			0.0	
				6	4.0		0.0	
				7			0.0	
Gray, dry, SAND and GRAVEL (GP) with some clay	12.0	10		8	4.0		0.0	
				9			0.0	
				10	4.0		0.0	
Brown with gray mottling, dry, CLAY (CL)	16.0	15		11			0.0	
				12	4.0		0.0	
				13			0.0	
				14	4.0		0.0	
				15			0.0	
- no gray mottling below 39 ft	30	25		16	4.0		0.0	
				17			0.0	
				18	4.0	▽	0.0	
				19			0.0	
				20	4.0		0.0	
Brown, wet, CLAYEY SAND (SC)	43.0	40		21	4.0		0.0	
				22	4.0	●	0.0	
				23			0.0	
				24	4.0		0.0	
				25			0.0	
- with trace gray sand between 46-48 ft								
Bottom of Boring at 50 ft	50.0	50						

TPV - Total Photo-Ionization Vapors  
 TFV - Total Flame-Ionization Vapors  
 PPM - Parts Per Million  
 ND - None Detected  
 PVC - Polyvinyl Chloride  
 NA - Not Analyzed

Depth to Groundwater  
 ● Noted on Drilling Tools 43.0 ft.  
 ▽ At Completion (open hole) 35.5 ft.  
 ▽ After -- hours -- ft.  
 ▽ Cave Depth -- ft.

HSA - Hollow Stem Augers  
 CFA - Continuous Flight Augers  
 HA - Hand Auger  
 BLR - Bailer  
 BP - Bladder Pump  
 PP - Peristaltic Pump  
 WP - Whale Pump

## *Appendix B – Low-Flow Groundwater Sampling Logs*

## ATC Groundwater Sampling Log

Client: POI - Former Tanners Creek  
 Project No.: 170EM00522  
 Location: 800 AEP Drive, Lawrenceburg, Indiana  
 Sampler(s): Josh Buckel

Sampling Event: Groundwater Sampling  
 Sample Date: 2/9/18  
 Equipment: Low-Flow

Well ID	WD	Time	DTW (ft)	BTW (ft)	CPM Setting	Setting ID	Flow volume per cycle (mL)	Flow rate (mL/min)	Pump depth (ft)	Throttle/ Pump pressure	Turbidity (NTU)	pH (units)	Conductivity (mS/cm)	ORP (mv)	Temp (degrees C)	DO
B-3	1"	10:45	11.20	22.67	6	165	20	120	17.67	40	5.2	6.92	0.798	-212	10.57	0.48
		10:54	11.20								5.6	6.99	0.816	-224	12.67	0.00
		10:57	11.20								5.3	7.01	0.814	-224	12.70	0.00
		11:00	11.20								5.4	7.01	0.816	-223	12.73	0.00

WD = Well Diameter      DTW = Depth to Water  
 BTW = Bottom of the Well      CPM = Cycles per Minute

REMARKS:  
 collected MS/MSD, clear, no sheen or odor  
 Sample collected at: 11:00

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## ATC Groundwater Sampling Log

Client: POI - Former Tanners Creek  
 Project No.: 170EM00522  
 Location: 800 AEP Drive, Lawrenceburg, Indiana  
 Sampler(s): Josh Buckel

Sampling Event: Groundwater Sampling  
 Sample Date: 2/9/18  
 Equipment: Low-Flow

Well ID	WD	Time	DTW (ft)	BTW (ft)	CPM Setting	Setting ID	Flow volume per cycle (mL)	Flow rate (mL/min)	Pump depth (ft)	Throttle/ Pump pressure	Turbidity (NTU)	pH (units)	Conductivity (mS/cm)	ORP (mv)	Temp (degrees C)	DO
B-6	1"	15:35	12.21	18.88	6	165	20	120	15.55	40	46.5	7.21	0.364	-23	16.07	8.90
		15:50	12.21								20.9	7.28	0.373	-31	15.96	3.06
		16:00	12.21								10.7	7.31	0.376	-34	15.85	0.51
		16:09	12.21								5.6	7.32	0.378	-33	15.80	0.00
		16:12	12.21								5.8	7.34	0.378	-34	15.78	0.00
		16:15	12.21								5.4	7.35	0.380	-34	15.79	0.00

WD = Well Diameter      DTW = Depth to Water  
 BTW = Bottom of the Well      CPM = Cycles per Minute

REMARKS:  
 clear, no sheen or odor  
 Sample collected at: 16:15


## ATC Groundwater Sampling Log

Client: POI - Former Tanners Creek  
 Project No.: 170EM00522  
 Location: 800 AEP Drive, Lawrenceburg, Indiana  
 Sampler(s): Josh Buckel

Sampling Event: Groundwater Sampling  
 Sample Date: 2/12/18  
 Equipment: Low-Flow

Well ID	WD	Time	DTW (ft)	BTW (ft)	CPM Setting	Setting ID	Flow volume per cycle (mL)	Flow rate (mL/min)	Pump depth (ft)	Throttle/ Pump pressure	Turbidity (NTU)	pH (units)	Conductivity (mS/cm)	ORP (mv)	Temp (degrees C)	DO
B-7	1"	12:00	15.83	24.21	6	165	20	120	20.02	40	21.3	6.45	1.201	-156	15.66	2.43
		12:15	15.83								11.1	6.45	1.114	-159	15.62	0.21
		12:21	15.83								4.8	6.50	1.108	-161	15.38	0.00
		12:24	15.83								5.6	6.52	1.106	-162	15.29	0.00
		12:27	15.83								5.4	6.52	1.100	-163	15.31	0.00
		12:30	15.83								5.7	6.53	1.100	-163	15.27	0.00

WD = Well Diameter                      DTW = Depth to Water  
 BTW = Bottom of the Well              CPM = Cycles per Minute

REMARKS:  
 clear, no sheen or odor  
 Sample collected at: 12:30

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## ATC Groundwater Sampling Log

Client: POI - Former Tanners Creek  
 Project No.: 170EM00522  
 Location: 800 AEP Drive, Lawrenceburg, Indiana  
 Sampler(s): Josh Buckel

Sampling Event: Groundwater Sampling  
 Sample Date: 2/12/18  
 Equipment: Low-Flow

Well ID	WD	Time	DTW (ft)	BTW (ft)	CPM Setting	Setting ID	Flow volume per cycle (mL)	Flow rate (mL/min)	Pump depth (ft)	Throttle/ Pump pressure	Turbidity (NTU)	pH (units)	Conductivity (mS/cm)	ORP (mv)	Temp (degrees C)	DO
B-9	1"	12:45	22.77	28.00	6	165	20	120	25.39	50	69.7	6.22	0.575	-32	16.90	4.65
		13:15	22.77								34.0	6.14	0.567	-27	16.72	1.18
		13:35	22.77								20.0	6.12	0.563	-25	16.64	0.17
		13:50	22.77								14.7	6.11	0.561	-24	16.59	0.00
		13:54	22.77								13.8	6.11	0.560	-24	16.62	0.00
		13:57	22.77								13.7	6.10	0.562	-25	16.59	0.00
		14:00	22.77								14.2	6.10	0.561	-24	16.56	0.00

WD = Well Diameter                      DTW = Depth to Water  
 BTW = Bottom of the Well              CPM = Cycles per Minute

REMARKS:  
 clear, no sheen or odor  
 Sample collected at: 14:00

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## ATC Groundwater Sampling Log

Client: POI - Former Tanners Creek  
 Project No.: 170EM00522  
 Location: 800 AEP Drive, Lawrenceburg, Indiana  
 Sampler(s): Josh Buckel

Sampling Event: Groundwater Sampling  
 Sample Date: 2/12/18  
 Equipment: Low-Flow

Well ID	WD	Time	DTW (ft)	BTW (ft)	CPM Setting	Setting ID	Flow volume per cycle (mL)	Flow rate (mL/min)	Pump depth (ft)	Throttle/ Pump pressure	Turbidity (NTU)	pH (units)	Conductivity (mS/cm)	ORP (mv)	Temp (degrees C)	DO
B-11	1"	14:20	32.71	38.54	6	165	20	120	35.63	50	265	7.48	1.04	-218	15.05	0.78
		15:00	32.73								140	7.60	1.18	-238	14.27	0.00
		15:25	32.71								60.9	7.65	1.22	-245	14.02	0.00
		15:50	32.72								25.8	7.68	1.24	-250	14.00	0.00
		15:54	32.71								23.2	7.68	1.24	-250	13.95	0.00
		15:57	32.71								25.6	7.69	1.24	-251	13.98	0.00
		16:00	32.71								24.7	7.69	1.23	-251	13.94	0.00

WD = Well Diameter                      DTW = Depth to Water  
 BTW = Bottom of the Well              CPM = Cycles per Minute

REMARKS:  
 clear, no sheen or odor  
 Sample collected at: 16:00

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## ATC Groundwater Sampling Log

Client: POI - Former Tanners Creek  
 Project No.: 170EM00522  
 Location: 800 AEP Drive, Lawrenceburg, Indiana  
 Sampler(s): Josh Buckel

Sampling Event: Groundwater Sampling  
 Sample Date: 2/12/18  
 Equipment: Low-Flow

Well ID	WD	Time	DTW (ft)	BTW (ft)	CPM Setting	Setting ID	Flow volume per cycle (mL)	Flow rate (mL/min)	Pump depth (ft)	Throttle/ Pump pressure	Turbidity (NTU)	pH (units)	Conductivity (mS/cm)	ORP (mv)	Temp (degrees C)	DO
B-13	1"	16:45	26.32	35.83	6	165	20	120	31.06	50	109	8.31	0.491	-175	13.97	0.00
		17:10	26.33								44.7	8.43	0.489	-260	14.06	0.00
		17:20	26.32								30.8	8.43	0.486	-270	14.27	0.00
		17:24	26.32								22.7	8.45	0.480	-275	14.25	0.00
		17:27	26.33								24.8	8.42	0.480	-277	14.30	0.00
		17:30	26.33								25.6	8.44	0.482	-277	14.32	0.00

WD = Well Diameter      DTW = Depth to Water  
 BTW = Bottom of the Well      CPM = Cycles per Minute

REMARKS:  
 clear, no sheen or odor  
 Sample collected at: 17:30


## ATC Groundwater Sampling Log

Client: POI - Former Tanners Creek  
 Project No.: 170EM00522  
 Location: 800 AEP Drive, Lawrenceburg, Indiana  
 Sampler(s): Josh Buckel

Sampling Event: Groundwater Sampling  
 Sample Date: 2/13/18  
 Equipment: Low-Flow

Well ID	WD	Time	DTW (ft)	BTW (ft)	CPM Setting	Setting ID	Flow volume per cycle (mL)	Flow rate (mL/min)	Pump depth (ft)	Throttle/ Pump pressure	Turbidity (NTU)	pH (units)	Conductivity (mS/cm)	ORP (mv)	Temp (degrees C)	DO
B-14	1"	8:50	24.98	34.82	6	165	20	120	29.90	50	97.8	5.85	0.106	114	11.82	0.00
		9:30	24.98								53.9	7.02	0.102	-25	12.56	0.00
		10:00	24.98								32.6	7.58	0.102	-153	12.87	0.00
		10:11	24.98								28.0	7.70	0.102	-175	12.96	0.00
		10:14	24.98								20.6	7.75	0.101	-177	13.07	0.00
		10:17	24.98								21.1	7.77	0.102	-177	13.04	0.00
		10:20	24.98								22.0	7.78	0.101	-178	13.08	0.00

WD = Well Diameter      DTW = Depth to Water  
 BTW = Bottom of the Well      CPM = Cycles per Minute

REMARKS:  
 clear, no sheen or odor  
 Sample collected at: 10:20


## ATC Groundwater Sampling Log

Client: POI - Former Tanners Creek  
 Project No.: 170EM00522  
 Location: 800 AEP Drive, Lawrenceburg, Indiana  
 Sampler(s): Josh Buckel

Sampling Event: Groundwater Sampling  
 Sample Date: 2/13/18  
 Equipment: Low-Flow

Well ID	WD	Time	DTW (ft)	BTW (ft)	CPM Setting	Setting ID	Flow volume per cycle (mL)	Flow rate (mL/min)	Pump depth (ft)	Throttle/ Pump pressure	Turbidity (NTU)	pH (units)	Conductivity (mS/cm)	ORP (mv)	Temp (degrees C)	DO
B-15	1"	10:55	25.46	38.30	6	165	20	120	33.30	50	56.8	8.11	1.09	-155	15.90	0.48
		11:20	25.47								45.1	8.20	1.10	-202	14.53	0.00
		12:00	25.47								22.7	8.24	1.13	-243	13.98	0.00
		12:14	25.46								19.2	8.25	1.13	-255	14.20	0.00
		12:17	25.47								20.6	8.27	1.12	-258	14.25	0.00
		12:20	25.47								19.5	8.25	1.13	-256	14.22	0.00

WD = Well Diameter                      DTW = Depth to Water  
 BTW = Bottom of the Well              CPM = Cycles per Minute

REMARKS:  
 clear, no sheen or odor  
 Sample collected at: 12:20


## ATC Groundwater Sampling Log

Client: POI - Former Tanners Creek  
 Project No.: 170EM00522  
 Location: 800 AEP Drive, Lawrenceburg, Indiana  
 Sampler(s): Josh Buckel

Sampling Event: Groundwater Sampling  
 Sample Date: 2/13/18  
 Equipment: Low-Flow

Well ID	WD	Time	DTW (ft)	BTW (ft)	CPM Setting	Setting ID	Flow volume per cycle (mL)	Flow rate (mL/min)	Pump depth (ft)	Throttle/ Pump pressure	Turbidity (NTU)	pH (units)	Conductivity (mS/cm)	ORP (mv)	Temp (degrees C)	DO
B-16	1"	12:45	34.20	44.31	6	165	20	120	39.31	50	320	7.15	0.793	-215	12.70	2.69
		13:30	34.20								75.2	7.14	0.855	-222	13.41	0.16
		13:54	34.20								28.7	7.12	0.906	-217	12.92	0.00
		13:57	34.20								26.4	7.11	0.908	-218	12.90	0.00
		14:00	34.20								25.6	7.11	0.908	-220	12.88	0.00

WD = Well Diameter                      DTW = Depth to Water  
 BTW = Bottom of the Well              CPM = Cycles per Minute

REMARKS:  
 clear, no sheen or odor  
 Sample collected at: 14:00


## ATC Groundwater Sampling Log

Client: POI - Former Tanners Creek  
 Project No.: 170EM00522  
 Location: 800 AEP Drive, Lawrenceburg, Indiana  
 Sampler(s): Josh Buckel

Sampling Event: Groundwater Sampling  
 Sample Date: 2/13/18  
 Equipment: Low-Flow

Well ID	WD	Time	DTW (ft)	BTW (ft)	CPM Setting	Setting ID	Flow volume per cycle (mL)	Flow rate (mL/min)	Pump depth (ft)	Throttle/ Pump pressure	Turbidity (NTU)	pH (units)	Conductivity (mS/cm)	ORP (mv)	Temp (degrees C)	DO
B-19	1"	14:40	32.78	38.20	6	165	20	120	35.49	50	163	7.78	0.804	-196	20.74	0.04
		15:15	32.78								82.6	7.85	1.13	-271	18.50	0.00
		15:50	32.79								34.3	7.92	1.16	-285	17.05	0.00
		16:20	32.78								17.8	7.94	1.17	-290	16.85	0.00
		16:24	32.78								15.6	7.95	1.18	-295	16.80	0.00
		16:27	32.78								16.7	7.96	1.17	-294	16.75	0.00
		16:30	32.78								16.1	7.95	1.17	-294	16.77	0.00

WD = Well Diameter                      DTW = Depth to Water  
 BTW = Bottom of the Well              CPM = Cycles per Minute

REMARKS:  
 clear, no sheen or odor  
 Sample collected at: 16:30


## ATC Groundwater Sampling Log

Client: POI - Former Tanners Creek  
 Project No.: 170EM00522  
 Location: 800 AEP Drive, Lawrenceburg, Indiana  
 Sampler(s): Josh Buckel

Sampling Event: Groundwater Sampling  
 Sample Date: 2/14/18  
 Equipment: Low-Flow

Well ID	WD	Time	DTW (ft)	BTW (ft)	CPM Setting	Setting ID	Flow volume per cycle (mL)	Flow rate (mL/min)	Pump depth (ft)	Throttle/ Pump pressure	Turbidity (NTU)	pH (units)	Conductivity (mS/cm)	ORP (mv)	Temp (degrees C)	DO
B-21	1"	8:30	32.31	38.20	6	165	20	120	35.35	50	209	7.80	1.04	-145	17.54	9.06
		9:00	32.31								163	7.94	1.05	-241	17.04	0.46
		9:20	32.32								122	7.98	1.08	-260	15.58	0.00
		9:45	32.32								101	8.05	1.11	-276	14.83	0.00
		10:20	32.31								80.7	8.12	1.13	-280	14.90	0.00
		10:50	32.31								68.6	8.14	1.15	-285	14.82	0.00
		11:10	32.31								50.7	8.15	1.15	-288	14.75	0.00
		11:14	32.31								45.8	8.14	1.16	-288	14.81	0.00
		11:17	32.31								46.2	8.13	1.16	-289	14.76	0.00
		11:20	32.32								43.7	8.13	1.16	-289	14.78	0.00

WD = Well Diameter                      DTW = Depth to Water  
 BTW = Bottom of the Well              CPM = Cycles per Minute

REMARKS:  
 clear, no sheen or odor  
 Sample collected at: 11:20




## ATC Groundwater Sampling Log

Client: POI - Former Tanners Creek  
 Project No.: 170EM00522  
 Location: 800 AEP Drive, Lawrenceburg, Indiana  
 Sampler(s): Josh Buckel

Sampling Event: Groundwater Sampling  
 Sample Date: 2/14/18  
 Equipment: Low-Flow

Well ID	WD	Time	DTW (ft)	BTW (ft)	CPM Setting	Setting ID	Flow volume per cycle (mL)	Flow rate (mL/min)	Pump depth (ft)	Throttle/ Pump pressure	Turbidity (NTU)	pH (units)	Conductivity (mS/cm)	ORP (mv)	Temp (degrees C)	DO
B-23	1"	13:00	26.35	39.07	6	165	20	120	34.07	50	764	6.92	0.577	55	16.26	0.00
		14:00	26.35								354	7.08	0.575	42	15.58	0.00
		14:45	26.35								47.2	7.17	0.571	20	15.62	0.00
		15:00	26.35								32.7	7.23	0.520	30	15.50	0.00
		15:20	26.35								24.2	7.30	0.510	40	15.65	0.00
		15:24	26.35								25.6	7.36	0.506	45	15.60	0.00
		15:27	26.35								24.7	7.38	0.504	47	15.55	0.00
		15:30	26.35								23.9	7.40	0.504	47	15.58	0.00

WD = Well Diameter                      DTW = Depth to Water  
 BTW = Bottom of the Well              CPM = Cycles per Minute

REMARKS:  
 clear, no sheen or odor  
 Sample collected at: 15:30

## ATC Groundwater Sampling Log

Client: POI - Former Tanners Creek  
 Project No.: 170EM00522  
 Location: 800 AEP Drive, Lawrenceburg, Indiana  
 Sampler(s): Josh Buckel

Sampling Event: Groundwater Sampling  
 Sample Date: 2/15/18  
 Equipment: Low-Flow

Well ID	WD	Time	DTW (ft)	BTW (ft)	CPM Setting	Setting ID	Flow volume per cycle (mL)	Flow rate (mL/min)	Pump depth (ft)	Throttle/ Pump pressure	Turbidity (NTU)	pH (units)	Conductivity (mS/cm)	ORP (mv)	Temp (degrees C)	DO
B-24	1"	8:20	25.30	39.43	6	165	20	120	34.43	50	82.4	6.83	0.722	-186	15.86	0.00
		8:50	25.30								31.7	6.83	0.717	-202	15.65	0.00
		8:54	25.30								24.9	6.85	0.714	-204	15.60	0.00
		8:57	25.30								25.6	6.85	0.714	-201	15.59	0.00
		9:00	25.30								23.9	6.85	0.713	-203	15.56	0.00

WD = Well Diameter                      DTW = Depth to Water  
 BTW = Bottom of the Well              CPM = Cycles per Minute

REMARKS:  
 clear, no sheen or odor  
 Sample collected at: 9:00

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## ATC Groundwater Sampling Log

Client: POI - Former Tanners Creek  
 Project No.: 170EM00522  
 Location: 800 AEP Drive, Lawrenceburg, Indiana  
 Sampler(s): Josh Buckel

Sampling Event: Groundwater Sampling  
 Sample Date: 2/15/18  
 Equipment: Low-Flow

Well ID	WD	Time	DTW (ft)	BTW (ft)	CPM Setting	Setting ID	Flow volume per cycle (mL)	Flow rate (mL/min)	Pump depth (ft)	Throttle/ Pump pressure	Turbidity (NTU)	pH (units)	Conductivity (mS/cm)	ORP (mv)	Temp (degrees C)	DO
B-26	1"	10:40	25.45	39.43	6	165	20	120	34.43	50	91.1	7.27	0.651	-247	17.51	0.00
		11:20	25.45								60.7	7.28	0.645	-249	17.79	0.00
		11:35	25.45								38.6	7.31	0.640	-251	17.95	0.00
		11:50	25.45								20.7	7.34	0.638	-253	18.13	0.00
		11:54	25.45								22.6	7.37	0.637	-255	18.17	0.00
		11:57	25.45								21.1	7.38	0.638	-255	18.21	0.00
		12:00	25.45								20.9	7.39	0.640	-256	18.18	0.00

WD = Well Diameter                      DTW = Depth to Water  
 BTW = Bottom of the Well              CPM = Cycles per Minute

REMARKS:  
 clear, no sheen or odor  
 Sample collected at: 12:00

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## ATC Groundwater Sampling Log

Client: POI - Former Tanners Creek  
 Project No.: 170EM00522  
 Location: 800 AEP Drive, Lawrenceburg, Indiana  
 Sampler(s): Josh Buckel

Sampling Event: Groundwater Sampling  
 Sample Date: 2/20/18  
 Equipment: Low-Flow

Well ID	WD	Time	DTW (ft)	BTW (ft)	CPM Setting	Setting ID	Flow volume per cycle (mL)	Flow rate (mL/min)	Pump depth (ft)	Throttle/ Pump pressure	Turbidity (NTU)	pH (units)	Conductivity (mS/cm)	ORP (mv)	Temp (degrees C)	DO
B-27	1"	10:00	15.90	48.76	6	165	20	120	43.76	50	7.3	8.64	0.511	-55	16.68	2.33
		10:15	15.90								5.9	8.87	0.524	-61	16.65	0.20
		10:21	15.91								5.2	8.98	0.528	-63	16.72	0.00
		10:24	15.90								4.5	8.95	0.530	-63	16.75	0.00
		10:27	15.90								4.8	8.91	0.531	-64	16.80	0.00
		10:30	15.90								4.6	8.93	0.530	-63	16.78	0.00

WD = Well Diameter                      DTW = Depth to Water  
 BTW = Bottom of the Well              CPM = Cycles per Minute

REMARKS:  
 clear, no sheen or odor  
 Sample collected at: 10:30


## ATC Groundwater Sampling Log

Client: POI - Former Tanners Creek  
 Project No.: 170EM00522  
 Location: 800 AEP Drive, Lawrenceburg, Indiana  
 Sampler(s): Josh Buckel

Sampling Event: Groundwater Sampling  
 Sample Date: 2/20/18  
 Equipment: Low-Flow

Well ID	WD	Time	DTW (ft)	BTW (ft)	CPM Setting	Setting ID	Flow volume per cycle (mL)	Flow rate (mL/min)	Pump depth (ft)	Throttle/ Pump pressure	Turbidity (NTU)	pH (units)	Conductivity (mS/cm)	ORP (mv)	Temp (degrees C)	DO
B-34	1"	13:40	1.83	40.20	6	165	20	120	35.20	50	144	7.18	0.445	45	17.05	10.07
		14:20	1.83								78.6	7.16	0.442	-40	17.98	5.62
		15:00	1.83								49.6	7.14	0.440	-84	18.61	0.46
		15:21	1.83								33.8	7.16	0.450	-85	18.70	0.00
		15:24	1.83								24.6	7.18	0.458	-83	18.79	0.00
		15:27	1.83								24.5	7.19	0.458	-83	18.80	0.00
		15:30	1.83								24.7	7.18	0.460	-84	18.78	0.00

WD = Well Diameter                      DTW = Depth to Water  
 BTW = Bottom of the Well              CPM = Cycles per Minute

REMARKS:  
 clear, no sheen or odor  
 Sample collected at: 15:30


## ATC Groundwater Sampling Log

Client: POI - Former Tanners Creek  
 Project No.: 170EM00522  
 Location: 800 AEP Drive, Lawrenceburg, Indiana  
 Sampler(s): Josh Buckel

Sampling Event: Groundwater Sampling  
 Sample Date: 2/15/18  
 Equipment: Low-Flow

Well ID	WD	Time	DTW (ft)	BTW (ft)	CPM Setting	Setting ID	Flow volume per cycle (mL)	Flow rate (mL/min)	Pump depth (ft)	Throttle/ Pump pressure	Turbidity (NTU)	pH (units)	Conductivity (mS/cm)	ORP (mv)	Temp (degrees C)	DO	
B-36	1"	14:00	11.86	25.20	6	165	20	120	20.20	50	172	7.43	0.440	187	17.56	6.71	
		14:45	11.86									91.6	6.81	0.442	170	17.01	3.24
		15:30	11.86									34.7	6.68	0.447	156	17.38	0.30
		15:51	11.87									25.6	6.71	0.448	145	17.49	0.00
		15:54	11.86									22.7	6.73	0.446	141	17.60	0.00
		15:57	11.86									22.0	6.74	0.447	141	17.63	0.00
		16:00	11.86									21.3	6.72	0.447	140	17.66	0.00

WD = Well Diameter                      DTW = Depth to Water  
 BTW = Bottom of the Well              CPM = Cycles per Minute

REMARKS:  
 clear, no sheen or odor  
 Sample collected at: 16:00

## ATC Groundwater Sampling Log

Client: POI - Former Tanners Creek  
 Project No.: 170EM00522  
 Location: 800 AEP Drive, Lawrenceburg, Indiana  
 Sampler(s): Josh Buckel

Sampling Event: Groundwater Sampling  
 Sample Date: 2/19/18  
 Equipment: Low-Flow

Well ID	WD	Time	DTW (ft)	BTW (ft)	CPM Setting	Setting ID	Flow volume per cycle (mL)	Flow rate (mL/min)	Pump depth (ft)	Throttle/ Pump pressure	Turbidity (NTU)	pH (units)	Conductivity (mS/cm)	ORP (mv)	Temp (degrees C)	DO
B-38	1"	13:00	16.40	35.75	6	165	20	120	30.75	50	295	7.76	0.521	-241	20.58	0.46
		13:30	16.40								187	7.95	0.525	-234	19.86	0.00
		14:00	16.41								95.5	7.98	0.523	-266	19.72	0.00
		14:30	16.40								67.6	8.08	0.526	-280	19.61	0.00
		14:51	16.40								48.2	8.04	0.524	-285	19.53	0.00
		14:54	16.41								43.7	8.01	0.524	-288	19.55	0.00
		14:57	16.40								40.7	8.02	0.525	-287	19.51	0.00
		15:00	16.40								42.6	8.02	0.525	-288	19.53	0.00

WD = Well Diameter                      DTW = Depth to Water  
 BTW = Bottom of the Well              CPM = Cycles per Minute

REMARKS:  
 clear, no sheen or odor; collected DUP  
 Sample collected at: 15:00


## ATC Groundwater Sampling Log

Client: POI - AEP - Tanners Creek  
 Project #: 170EM00522  
 Location: 800 AEP Dr., Lawrenceburg, IN  
 Sampler(s): John Quay

Sampling Event: Groundwater Sampling  
 Equipment: QED MP-15, sample pro bladder pump, YSI ProDSS  
 Date: April 25, 2018  
 Other: Parameters collected using a YSI ProDSS and flow-through cell

Well ID	WD	Date	Time	DTW (ft)	BTW (ft)	CPM Setting/ID	Flow volume per cycle (mL)	Flow rate (mL/min)	Pump depth (ft)	Throttle/ Pump pressure (ft)	Maximum Drawdown allowed (ft)	Volume purged (mL)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (degrees C)	ORP (mV)
TMW-40	1"	4/25/18	12:20	13.45	36.00	6/165	20	120	24.72	35	0	0	7.47	0.712	11.6	1.89	13.9	-153
			12:30	13.45								1200	7.47	0.711	9	0.92	13.6	-256.8
			12:33	13.45								1560	7.49	0.71	9.1	0.74	13.6	-262.2
			12:36	13.45								1920	7.50	0.709	8.9	0.66	13.6	-249.4
			12:39	13.45								2280	7.49	0.712	8.8	0.62	13.7	-262
			12:42	13.45								2640	7.49	0.712	9	0.6	13.7	-263.7

WD = Well Diameter                      CH = Column Height                      AGP = Actual Gallons Purged  
 BTW = Bottom of the Well              3-WV = 3 Well Volumes                  DTW = Distance to Water

REMARKS:

CH= 22.55  
 3-WV=  
 AGP= 0.75  
 Sample Time= 12:45  
 H2O Notes= clear



## ATC Groundwater Sampling Log

Client: POI - AEP - Tanners Creek  
 Project #: 170EM00522  
 Location: 800 AEP Dr., Lawrenceburg, IN  
 Sampler(s): John Quay

Sampling Event: Groundwater Sampling  
 Equipment: QED MP-15, sample pro bladder pump, YSI ProDSS  
 Date: April 25, 2018  
 Other: Parameters collected using a YSI ProDSS and flow-through cell

Well ID	WD	Date	Time	DTW (ft)	BTW (ft)	CPM Setting/ID	Flow volume per cycle (mL)	Flow rate (mL/min)	Pump depth (ft)	Throttle/ Pump pressure (ft)	Maximum Drawdown allowed (ft)	Volume purged (mL)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (degrees C)	ORP (mV)
TMW-43	1"	4/25/18	11:01	12.19	24.00	4/103			18.09	30	0.3		7.95	0.694	10.3	2.60	13.0	-300.0
			11:11										7.52	0.691	10.6	0.95	13.0	-274.0
			11:14										7.54	0.690	13.5	0.78	13.0	-325.4
			11:17										7.54	0.691	19.2	0.73	13.1	-330.1
			11:20										7.55	0.692	25.6	0.66	13.2	-335.0
			11:23										7.56	0.691	33.8	0.63	13.3	-334.5
			11:26										7.56	0.691	35.7	0.61	13.4	-332.1
			11:29										7.56	0.691	35.6	0.59	13.4	-333.9

WD = Well Diameter                      CH = Column Height                      AGP = Actual Gallons Purged  
 BTW = Bottom of the Well              3-WV = 3 Well Volumes                      DTW = Distance to Water

**REMARKS:**

CH= 11.81

3-WV=

AGP= 0.50

Sample Time= 11:35

H2O Notes= clear

## ATC Groundwater Sampling Log

Client: POI - AEP - Tanners Creek  
 Project #: 170EM00522  
 Location: 800 AEP Dr., Lawrenceburg, IN  
 Sampler(s): John Quay

Sampling Event: Groundwater Sampling  
 Equipment: QED MP-15, sample pro bladder pump, YSI ProDSS  
 Date: April 25, 2018  
 Other: Parameters collected using a YSI ProDSS and flow-through cell

Well ID	WD	Date	Time	DTW (ft)	BTW (ft)	CPM Setting/ID	Flow volume per cycle (mL)	Flow rate (mL/min)	Pump depth (ft)	Throttle/ Pump pressure (ft)	Maximum Drawdown allowed (ft)	Volume purged (mL)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (degrees C)	ORP (mV)	
TMW-45	1"	4/25/18	9:54	11.28	20.00	4/103			15.64	30	0.3		8.05	0.544	27.0	5.81	13.0	-319.8	
			10:04										7.50	0.538	10.7	3.96	12.8	-283.3	
			10:07										7.50	0.537	10.5	3.94	12.8	-275.0	
			10:10										7.50	0.537	10.1	3.86	12.8	-265.6	

WD = Well Diameter                      CH = Column Height                      AGP = Actual Gallons Purged  
 BTW = Bottom of the Well              3-WV = 3 Well Volumes                      DTW = Distance to Water

**REMARKS:**

CH= 8.72  
 3-WV=  
 AGP= 0.25  
 Sample Time= 10:15  
 H2O Notes= clear

## ATC Groundwater Sampling Log

Client: POI - AEP - Tanners Creek  
 Project #: 170EM00522  
 Location: 800 AEP Dr., Lawrenceburg, IN  
 Sampler(s): John Quay

Sampling Event: Groundwater Sampling  
 Equipment: QED MP-15, sample pro bladder pump, YSI ProDSS  
 Date: April 25, 2018  
 Other: Parameters collected using a YSI ProDSS and flow-through cell

Well ID	WD	Date	Time	DTW (ft)	BTW (ft)	CPM Setting/ID	Flow volume per cycle (mL)	Flow rate (mL/min)	Pump depth (ft)	Throttle/ Pump pressure (ft)	Maximum Drawdown allowed (ft)	Volume purged (mL)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (degrees C)	ORP (mV)	
TMW-47	1"	4/25/18	07:47	13.68	32.00	4/103			29.5	40	0.3		8.11	0.634	122.8	4.95	12.1	-249.5	
			07:57										8.06	0.626	175.1	11.74	12.3	-239.2	
			08:07										8.12	0.628	126.8	12.03	12.4	-227.1	
			08:10										8.13	0.628	116.3	12.02	12.4	-225.1	
			08:13										8.14	0.629	108.3	11.99	12.5	-228.9	
			08:23										8.18	0.630	96.9	11.88	12.5	-222.6	
			readings paused to clear out excess sediment that was stuck in flow through cell, adversely affecting turbidity readings																
			08:57											7.97	0.631	105.6	9.41	12.9	-207.1
			09:00											7.96	0.631	104.3	9.35	12.8	-202.8
			09:03											7.94	0.631	104.4	9.15	12.8	-205.1
			09:06											7.94	0.631	102.6	9.08	12.8	-208.1

WD = Well Diameter                      CH = Column Height                      AGP = Actual Gallons Purged  
 BTW = Bottom of the Well              3-WV = 3 Well Volumes                  DTW = Distance to Water

**REMARKS:**

CH=  
 3-WV=  
 AGP=  
 Sample Time=  
 H2O Notes=

## ATC Groundwater Sampling Log

Client: POI - AEP - Tanners Creek  
 Project #: 170EM00522  
 Location: 800 AEP Dr., Lawrenceburg, IN  
 Sampler(s): John Quay

Sampling Event: Groundwater Sampling  
 Equipment: QED MP-15, sample pro bladder pump, YSI ProDSS  
 Date: April 25, 2018  
 Other: Parameters collected using a YSI ProDSS and flow-through cell

Well ID	WD	Date	Time	DTW (ft)	BTW (ft)	CPM Setting/ID	Flow volume per cycle (mL)	Flow rate (mL/min)	Pump depth (ft)	Throttle/ Pump pressure (ft)	Maximum Drawdown allowed (ft)	Volume purged (mL)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (degrees C)	ORP (mV)
TMW-50	1"	4/25/18	14:15	6.20	28.00	6/165			17.1	30	0.3		7.96	0.687	347.5	4.23	15.8	-417.4
			14:25	6.21									7.40	0.674	317.2	1.43	14.3	-181.2
			14:35										7.46	0.675	227.4	0.92	15.0	-217.8
			14:45										7.46	0.676	194.7	0.78	15.4	-252.6
			14:55										7.63	0.681	151.8	0.96	14.9	-233.9
			15:05										7.40	0.676	118.9	0.82	15.8	-262.7
			15:15										7.40	0.677	89.3	0.63	16.0	-252.2
			15:25										7.36	0.677	70.1	0.53	16.0	-256.5
			15:35										7.34	0.675	91.2	0.51	15.4	-266.7
			15:45										7.38	0.678	78.6	0.47	16.1	-259.1
			15:50										7.39	0.678	77.7	0.46	16.4	-281.2
			15:53										7.39	0.678	82.7	0.45	16.4	-277.1
		15:56										7.39	0.680	71.1	0.44	16.5	-276.8	

WD = Well Diameter  
 BTW = Bottom of the Well  
 CH = Column Height  
 3-WV = 3 Well Volumes  
 AGP = Actual Gallons Purged  
 DTW = Distance to Water

**REMARKS:**

CH= 21.8

3-WV=

AGP= 1.0

Sample Time= 16:00

H2O Notes= slightly cloudy

## ATC Groundwater Sampling Log

Client: POI - AEP - Tanners Creek  
 Project #: 170EM00522  
 Location: 800 AEP Dr., Lawrenceburg, IN  
 Sampler(s): John Quay

Sampling Event: Groundwater Sampling  
 Equipment: QED MP-15, sample pro bladder pump, YSI ProDSS  
 Date: April 24, 2018  
 Other: Parameters collected using a YSI ProDSS and flow-through cell

Well ID	WD	Date	Time	DTW (ft)	BTW (ft)	CPM Setting/ID	Flow volume per cycle (mL)	Flow rate (mL/min)	Pump depth (ft)	Throttle/ Pump pressure (ft)	Maximum Drawdown allowed (ft)	Volume purged (mL)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (degrees C)	ORP (mV)	
TMW-52	1"	4/24/18	15:40	7.68	36.00	4/103			21.84	30	0.3		7.71	0.830	72.0	5.19	14.5	-223.4	
			15:50										7.49	0.840	40.3	0.74	15.1	-266.7	
			15:53										7.49	0.840	30.7	0.65	15.2	-273.4	
			15:56										7.49	0.840	31.6	0.60	15.3	-288.0	
			15:59										7.47	0.842	103.6	0.54	15.4	-269.3	
			16:02										7.41	0.842	270.3	0.50	15.4	-272.0	
			16:05										7.38	0.841	289.2	0.45	15.4	-292.6	
			16:15										7.34	0.838	175.1	0.41	15.3	-288.6	
			16:25										7.33	0.837	116.5	0.37	15.4	-271.5	
	readings paused to clear out excess sediment that was stuck in flow through cell, adversely affecting turbidity readings																		
				16:33										7.37	0.837	79.0	1.00	15.4	-232.1
				16:43										7.31	0.836	58.0	0.36	15.5	-258.1
				16:46										7.30	0.836	56.0	0.37	15.5	-253.8
			16:49										7.30	0.836	55.4	0.38	15.5	-251.5	

WD = Well Diameter                      CH = Column Height                      AGP = Actual Gallons Purged  
 BTW = Bottom of the Well              3-WV = 3 Well Volumes                      DTW = Distance to Water

**REMARKS:**

CH= 28.32  
 3-WV=  
 AGP= 1.0  
 Sample Time= 16:50  
 H2O Notes= clear

## ATC Groundwater Sampling Log

Client: POI - AEP - Tanners Creek  
 Project #: 170EM00522  
 Location: 800 AEP Dr., Lawrenceburg, IN  
 Sampler(s): John Quay

Sampling Event: Groundwater Sampling  
 Equipment: QED MP-15, sample pro bladder pump, YSI ProDSS  
 Date: April 26, 2018  
 Other: Parameters collected using a YSI ProDSS and flow-through cell

Well ID	WD	Date	Time	DTW (ft)	BTW (ft)	CPM Setting/ID	Flow volume per cycle (mL)	Flow rate (mL/min)	Pump depth (ft)	Throttle/ Pump pressure (ft)	Maximum Drawdown allowed (ft)	Volume purged (mL)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (degrees C)	ORP (mV)
TMW-55	1"	4/26/18	07:43	16.42	36.00	4/103			26.21	40	0.3		8.01	0.744	58.7	4.14	9.9	-119.3
			07:53										7.56	0.748	46.4	3.93	10.5	-116.8
			08:03										7.56	0.750	54.6	5.31	10.9	-129.0
			08:06										7.56	0.749	62.0	5.82	11.0	-113.1
			08:09										7.56	0.748	57.5	6.04	11.2	-113.7
			08:12										7.56	0.750	58.0	6.20	11.3	-105.3

WD = Well Diameter                      CH = Column Height                      AGP = Actual Gallons Purged  
 BTW = Bottom of the Well              3-WV = 3 Well Volumes                  DTW = Distance to Water

REMARKS:  
 CH= 19.58  
 3-WV=  
 AGP= 0.25  
 Sample Time= 08:15  
 H2O Notes= slightly cloudy, yellow tint

## ATC Groundwater Sampling Log

Client: POI - AEP - Tanners Creek  
 Project #: 170EM00522  
 Location: 800 AEP Dr., Lawrenceburg, IN  
 Sampler(s): John Quay

Sampling Event: Groundwater Sampling  
 Equipment: QED MP-15, sample pro bladder pump, YSI ProDSS  
 Date: April 26, 2018  
 Other: Parameters collected using a YSI ProDSS and flow-through cell

Well ID	WD	Date	Time	DTW (ft)	BTW (ft)	CPM Setting/ID	Flow volume per cycle (mL)	Flow rate (mL/min)	Pump depth (ft)	Throttle/ Pump pressure (ft)	Maximum Drawdown allowed (ft)	Volume purged (mL)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (degrees C)	ORP (mV)
TMW-56	1"	4/26/18	09:29	19.18	32.00	4/103			29.5	40	0.3		8.23	0.639	282.4	7.23	12.2	-422.0
			09:39	19.25									7.63	0.635	206.8	3.68	13.6	-431.6
			09:49	19.20									7.55	0.637	117.1	2.06	13.7	-438.7
			09:59										7.50	0.635	80.5	1.73	13.8	-440.5
			10:02										7.50	0.635	68.5	1.67	13.8	-439.6
			10:05										7.49	0.636	62.7	1.61	13.9	-446.3
			10:08										7.49	0.636	55.1	1.54	13.9	-448.8
			10:18										7.49	0.639	42.6	1.37	14.2	-447.0
			10:21										7.49	0.639	42.5	1.31	14.3	-454.6
			10:24										7.49	0.640	40.6	1.27	14.3	-459.1
		10:27										7.48	0.640	39.9	1.25	14.4	-457.1	

WD = Well Diameter  
 BTW = Bottom of the Well  
 CH = Column Height  
 3-WV = 3 Well Volumes  
 AGP = Actual Gallons Purged  
 DTW = Distance to Water

**REMARKS:**

CH= 12.82

3-WV=

AGP= 0.50

Sample Time= 10:30

H2O Notes= slightly cloudy

## ATC Groundwater Sampling Log

Client: POI - AEP - Tanners Creek  
 Project #: 170EM00522  
 Location: 800 AEP Dr., Lawrenceburg, IN  
 Sampler(s): John Quay

Sampling Event: Groundwater Sampling  
 Equipment: QED MP-15, sample pro bladder pump, YSI ProDSS  
 Date: April 24, 2018  
 Other: Parameters collected using a YSI ProDSS and flow-through cell

Well ID	WD	Date	Time	DTW (ft)	BTW (ft)	CPM Setting/ID	Flow volume per cycle (mL)	Flow rate (mL/min)	Pump depth (ft)	Throttle/ Pump pressure (ft)	Maximum Drawdown allowed (ft)	Volume purged (mL)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (degrees C)	ORP (mV)
TMW-57	1"	4/24/18	14:25	17.90	24.00	4/103			20.95	35	0.3		7.36	0.828	72.9	3.59	12.8	-90.1
			14:35										7.24	0.818	73.4	0.86	12.5	-128.9
			14:38										7.28	0.812	62.4	0.74	12.6	-149.0
			14:41										7.32	0.809	50.8	0.65	12.6	-161.1
			14:44										7.34	0.807	39.7	0.55	12.6	-157.8
			14:47										7.36	0.805	40.5	0.57	12.7	-204.3
			14:50										7.38	0.803	34.7	0.55	12.7	-211.8
			14:53										7.40	0.800	26.3	0.51	12.7	-209.5
			14:56										7.41	0.799	25.5	0.50	12.7	-198.7
			14:59										7.42	0.799	27.0	0.49	12.6	-210.2

WD = Well Diameter                      CH = Column Height                      AGP = Actual Gallons Purged  
 BTW = Bottom of the Well              3-WV = 3 Well Volumes                  DTW = Distance to Water

**REMARKS:**

CH= 6.1

3-WV=

AGP= 0.25

Sample Time= 15:05

H2O Notes= clear



## ATC Groundwater Sampling Log

Client: POI - AEP - Tanners Creek  
 Project #: 170EM00522  
 Location: 800 AEP Dr., Lawrenceburg, IN  
 Sampler(s): John Quay

Sampling Event: Groundwater Sampling  
 Equipment: QED MP-15, sample pro bladder pump, YSI ProDSS  
 Date: April 26, 2018  
 Other: Parameters collected using a YSI ProDSS and flow-through cell

Well ID	WD	Date	Time	DTW (ft)	BTW (ft)	CPM Setting/ID	Flow volume per cycle (mL)	Flow rate (mL/min)	Pump depth (ft)	Throttle/ Pump pressure (ft)	Maximum Drawdown allowed (ft)	Volume purged (mL)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (degrees C)	ORP (mV)	
TMW-59	1"	4/26/18	16:08	21.05	36.00	4/103			32	45	0.3		7.93	1.345	444.5	2.63	19.6	-418.0	
			16:18										6.95	1.312	439.1	0.70	18.0	-431.4	
			16:28										6.98	1.295	265.5	0.60	17.3	-422.7	
			16:38										7.01	1.283	168.8	0.55	16.9	-278.9	
			16:48										7.02	1.279	127.1	0.52	16.7	-258.6	
			16:51										7.03	1.280	110.4	0.51	16.7	-264.4	
			16:54										7.04	1.280	112.7	0.48	16.7	-272.1	
			16:57										7.04	1.280	107.3	0.48	16.7	-280.8	

WD = Well Diameter                      CH = Column Height                      AGP = Actual Gallons Purged  
 BTW = Bottom of the Well              3-WV = 3 Well Volumes                  DTW = Distance to Water

**REMARKS:**

CH= 14.95

3-WV=

AGP= 0.75

Sample Time= 17:00

slightly cloudy

## ATC Groundwater Sampling Log

Client: POI - AEP - Tanners Creek  
 Project #: 170EM00522  
 Location: 800 AEP Dr., Lawrenceburg, IN  
 Sampler(s): John Quay

Sampling Event: Groundwater Sampling  
 Equipment: QED MP-15, sample pro bladder pump, YSI ProDSS  
 Date: April 27, 2018  
 Other: Parameters collected using a YSI ProDSS and flow-through cell

Well ID	WD	Date	Time	DTW (ft)	BTW (ft)	CPM Setting/ID	Flow volume per cycle (mL)	Flow rate (mL/min)	Pump depth (ft)	Throttle/ Pump pressure (ft)	Maximum Drawdown allowed (ft)	Volume purged (mL)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (degrees C)	ORP (mV)
TMW-63	1"	4/27/18	07:56	25.47	39.70	4/103			35.7	45	0.3		7.73	0.664	56.0	3.06	11.0	-251.7
			08:06										7.68	0.668	31.1	2.20	12.3	-465.2
			08:09										7.68	0.668	25.9	2.15	12.3	-451.8
			08:12										7.68	0.670	23.4	2.11	12.3	-462.7
			08:15										7.67	0.671	23.3	1.86	12.4	-462.5
			08:18										7.66	0.673	22.1	1.79	12.4	-460.6

WD = Well Diameter                      CH = Column Height                      AGP = Actual Gallons Purged  
 BTW = Bottom of the Well              3-WV = 3 Well Volumes                  DTW = Distance to Water

**REMARKS:**

CH= 14.23

3-WV=

AGP= 0.25

Sample Time= 08:25

H2O Notes= slightly cloudy

## ATC Groundwater Sampling Log

Client: POI - AEP - Tanners Creek  
 Project #: 170EM00522  
 Location: 800 AEP Dr., Lawrenceburg, IN  
 Sampler(s): John Quay

Sampling Event: Groundwater Sampling  
 Equipment: QED MP-15, sample pro bladder pump, YSI ProDSS  
 Date: April 27, 2018  
 Other: Parameters collected using a YSI ProDSS and flow-through cell

Well ID	WD	Date	Time	DTW (ft)	BTW (ft)	CPM Setting/ID	Flow volume per cycle (mL)	Flow rate (mL/min)	Pump depth (ft)	Throttle/ Pump pressure (ft)	Maximum Drawdown allowed (ft)	Volume purged (mL)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (degrees C)	ORP (mV)
TMW-66	1"	4/27/18	11:30	26.99	43.45	4/103			39.45	50	0.3		7.68	1.338	141.9	3.96	18.7	-387.3
			11:40										7.45	1.295	443.1	5.73	17.0	-419.9
			11:50										7.54	1.323	439.0	5.95	17.1	-464.7
			12:00										7.60	1.349	457.9	5.93	17.3	-416.7
			12:10										7.65	1.363	513.8	6.13	17.4	-408.6
			12:20										7.68	1.371	494.1	6.34	17.6	-391.2
			12:23										7.69	1.372	468.3	6.45	17.6	-376.7
			12:26										7.66	1.382	469.8	6.34	17.7	-375.0
			12:29										7.68	1.378	488.8	6.31	17.6	-382.0

WD = Well Diameter  
 BTW = Bottom of the Well  
 CH = Column Height  
 3-WV = 3 Well Volumes  
 AGP = Actual Gallons Purged  
 DTW = Distance to Water

**REMARKS:**

CH= 16.46

3-WV=

AGP= 0.50

Sample Time= 12:35

H2O Notes= cloudy

## ATC Groundwater Sampling Log

Client: POI - AEP - Tanners Creek  
 Project #: 170EM00522  
 Location: 800 AEP Dr., Lawrenceburg, IN  
 Sampler(s): John Quay

Sampling Event: Groundwater Sampling  
 Equipment: QED MP-15, sample pro bladder pump, YSI ProDSS  
 Date: April 30, 2018  
 Other: Parameters collected using a YSI ProDSS and flow-through cell

Well ID	WD	Date	Time	DTW (ft)	BTW (ft)	CPM Setting/ID	Flow volume per cycle (mL)	Flow rate (mL/min)	Pump depth (ft)	Throttle/ Pump pressure (ft)	Maximum Drawdown allowed (ft)	Volume purged (mL)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (degrees C)	ORP (mV)
TMW-67	1"	4/30/18	10:28	21.33	31.88	4/103			27.88	40	0.3		7.46	1.738	49.4	1.98	15.8	-375.0
			10:38										7.47	1.729	30.3	0.92	16.2	-496.2
			10:48										7.47	1.726	21.9	0.63	16.6	-480.9
			10:51										7.46	1.725	20.5	0.59	16.6	-479.2
			10:54										7.46	1.725	22.4	0.57	16.7	-468.2
			10:57										7.46	1.725	20.4	0.55	16.8	-476.1
			11:00										7.46	1.727	21.0	0.53	16.9	-498.2
			11:03										7.47	1.726	20.5	0.52	17.0	-494.2
			11:06										7.47	7.725	20.4	0.51	17.0	-493.8

WD = Well Diameter                      CH = Column Height                      AGP = Actual Gallons Purged  
 BTW = Bottom of the Well              3-WV = 3 Well Volumes                  DTW = Distance to Water

REMARKS:

CH=  
 3-WV=  
 AGP=  
 Sample Time=  
 H2O Notes=

## ATC Groundwater Sampling Log

Client: POI - AEP - Tanners Creek  
 Project #: 170EM00522  
 Location: 800 AEP Dr., Lawrenceburg, IN  
 Sampler(s): John Quay

Sampling Event: Groundwater Sampling  
 Equipment: QED MP-15, sample pro bladder pump, YSI ProDSS  
 Date: April 30, 2018  
 Other: Parameters collected using a YSI ProDSS and flow-through cell

Well ID	WD	Date	Time	DTW (ft)	BTW (ft)	CPM Setting/ID	Flow volume per cycle (mL)	Flow rate (mL/min)	Pump depth (ft)	Throttle/ Pump pressure (ft)	Maximum Drawdown allowed (ft)	Volume purged (mL)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (degrees C)	ORP (mV)
TMW-68	1"	4/30/18	14:21	25.26	32.35	4/103			29.85	40	0.3		7.99	1.061	66.5	3.20	23.3	-244.7
			14:31										7.40	1.072	105.7	0.77	20.6	-206.6
			14:41										7.51	1.078	78.1	0.55	22.8	-203.8
			14:51										7.48	1.086	78.5	0.40	24.9	-262.7
			15:01										7.45	1.079	109.5	0.90	25.9	-253.9
			15:11										7.53	1.081	130.3	0.69	27.4	-234.0
			15:21										7.58	1.084	125.4	2.39	28.6	-309.6
<b>NOT SAMPLED, WENT DRY AND DID NOT RECHARGE</b>																		

WD = Well Diameter                      CH = Column Height                      AGP = Actual Gallons Purged  
 BTW = Bottom of the Well              3-WV = 3 Well Volumes                  DTW = Distance to Water

**REMARKS:**

CH= 7.09  
 3-WV=  
 AGP=  
 Sample Time= NOT SAMPLED  
 H2O Notes=

## ATC Groundwater Sampling Log

Client: POI - AEP - Tanners Creek  
 Project #: 170EM00522  
 Location: 800 AEP Dr., Lawrenceburg, IN  
 Sampler(s): John Quay

Sampling Event: Groundwater Sampling  
 Equipment: QED MP-15, sample pro bladder pump, YSI ProDSS  
 Date: April 26, 2018  
 Other: Parameters collected using a YSI ProDSS and flow-through cell

Well ID	WD	Date	Time	DTW (ft)	BTW (ft)	CPM Setting/ID	Flow volume per cycle (mL)	Flow rate (mL/min)	Pump depth (ft)	Throttle/ Pump pressure (ft)	Maximum Drawdown allowed (ft)	Volume purged (mL)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (degrees C)	ORP (mV)	
TMW-71	1"	4/26/18	14:27	30.62	46.65	4/103			42.65	55	0.3		7.90	1.221	53.2	3.04	19.2	-450.2	
			14:37	30.79									7.21	1.200	88.6	1.51	18.1	-460.0	
			14:47										7.23	1.203	499.8	0.73	18.1	-464.6	
			14:57										7.23	1.202	611.8	0.56	18.2	-464.4	
			15:07										7.21	1.199	872.7	0.49	18.2	-463.6	
			15:10										7.21	1.199	862.2	0.48	18.2	-463.7	
			15:13										7.21	1.198	826.6	0.47	18.2	-464.4	

WD = Well Diameter                      CH = Column Height                      AGP = Actual Gallons Purged  
 BTW = Bottom of the Well              3-WV = 3 Well Volumes                  DTW = Distance to Water

**REMARKS:**

CH= 16.03  
 3-WV=  
 AGP= 1.0  
 Sample Time= 15:20  
 H2O Notes= cloudy, brownish yellow tint

## ATC Groundwater Sampling Log

Client: POI - AEP - Tanners Creek  
 Project #: 170EM00522  
 Location: 800 AEP Dr., Lawrenceburg, IN  
 Sampler(s): John Quay

Sampling Event: Groundwater Sampling  
 Equipment: QED MP-15, sample pro bladder pump, YSI ProDSS  
 Date: April 26, 2018  
 Other: Parameters collected using a YSI ProDSS and flow-through cell

Well ID	WD	Date	Time	DTW (ft)	BTW (ft)	CPM Setting/ID	Flow volume per cycle (mL)	Flow rate (mL/min)	Pump depth (ft)	Throttle/ Pump pressure (ft)	Maximum Drawdown allowed (ft)	Volume purged (mL)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (degrees C)	ORP (mV)	
TMW-72	1"	4/26/18	11:40	30.78	44.30	4/103			41.8	55	0.3		7.07	1.792	108.2	2.63	17.1	-438.1	
			11:50										7.08	1.833	119.3	0.98	17.1	-495.8	
				readings stopped after spike in turbidity, to let well purge out some turbid water															
			12:40											7.00	1.459	3043.0	0.50	18.7	-495.8
			12:50											7.03	1.425	2275.5	0.41	18.7	-472.2
			12:53											7.03	1.419	2123.8	0.39	18.6	-472.9
			12:56											7.04	1.411	1758.6	0.38	18.4	-473.3
			12:59											7.04	1.409	1617.2	0.39	18.4	-473.3
			13:02											7.04	1.407	1588.1	0.39	18.4	-473.0
			13:05											7.04	1.405	1511.0	0.39	18.5	-472.8

WD = Well Diameter                      CH = Column Height                      AGP = Actual Gallons Purged  
 BTW = Bottom of the Well              3-WV = 3 Well Volumes                  DTW = Distance to Water

**REMARKS:**

CH= 13.52

3-WV=

AGP= 1.5

Sample Time= 13:10

H2O Notes= cloudy, brown

## ATC Groundwater Sampling Log

Client: POI - AEP - Tanners Creek  
 Project #: 170EM00522  
 Location: 800 AEP Dr., Lawrenceburg, IN  
 Sampler(s): John Quay

Sampling Event: Groundwater Sampling  
 Equipment: QED MP-15, sample pro bladder pump, YSI ProDSS  
 Date: May 1, 2018  
 Other: Parameters collected using a YSI ProDSS and flow-through cell

Well ID	WD	Date	Time	DTW (ft)	BTW (ft)	CPM Setting/ID	Flow volume per cycle (mL)	Flow rate (mL/min)	Pump depth (ft)	Throttle/ Pump pressure (ft)	Maximum Drawdown allowed (ft)	Volume purged (mL)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (degrees C)	ORP (mV)	
TMW-74	1"	5/1/18	08:30	34.96	39.21	4/103			36.71	50	0.3		7.47	1.148	193.0	2.89	11.7	-227.6	
			08:40										7.34	1.207	121.8	1.86	11.8	-237.2	
			08:50										7.33	1.219	94.8	2.33	12.0	-254.6	
	<b>well went dry, sampled by bailer after recharging</b>																		

WD = Well Diameter                      CH = Column Height                      AGP = Actual Gallons Purged  
 BTW = Bottom of the Well              3-WV = 3 Well Volumes                  DTW = Distance to Water

**REMARKS:**

CH=  
 3-WV=  
 AGP=  
 Sample Time= 10:15  
 H2O Notes= brown, very turbid



## ATC Groundwater Sampling Log

Client: Ports of Indiana - Former AEP Tanner's Creek  
 Project No.: 170EM00522  
 Location: 800 AEP Drive, Lawrenceburg, Indiana  
 Sampler(s): Josh Buckel

Sampling Event: Groundwater Sampling  
 Sample Date: 6/25/18  
 Equipment: Low-flow

Well ID	WD	Time	DTW (ft)	BTW (ft)	CPM Setting	Setting ID	Flow volume per cycle (mL)	Flow rate (mL/min)	Pump depth (ft)	Throttle/ Pump pressure	Turbidity (NTU)	pH (units)	Conductivity (mS/cm)	ORP (mv)	Temp (degrees C)	DO
B-77	1"	9:45	29.90	44.70	6	184	20	120	39.70	40	10.6	6.62	1.167	-130	17.9	1.26
		10:05	29.91								10.8	6.64	1.170	-135	17.9	0.56
		10:08	29.90								9.7	6.65	1.170	-136	18.0	0.60
		10:11	29.90								8.9	6.65	1.171	-136	18.1	0.58
		10:14	29.90								8.1	6.66	1.171	-136	18.1	0.55

WD = Well Diameter                      DTW = Depth to Water  
 BTW = Bottom of the Well              CPM = Cycles per Minute

REMARKS:  
 Gallons of groundwater purged during the sampling event:  
 Sample collected at:    10:15

clear, no sheen or odor

## ATC Groundwater Sampling Log

Client: Ports of Indiana - Former AEP Tanner's Creek  
 Project No.: 170EM00522  
 Location: 800 AEP Drive, Lawrenceburg, Indiana  
 Sampler(s): Josh Buckel

Sampling Event: Groundwater Sampling  
 Sample Date: 6/22/18  
 Equipment: Low-flow

Well ID	WD	Time	DTW (ft)	BTW (ft)	CPM Setting	Setting ID	Flow volume per cycle (mL)	Flow rate (mL/min)	Pump depth (ft)	Throttle/ Pump pressure	Turbidity (NTU)	pH (units)	Conductivity (mS/cm)	ORP (mv)	Temp (degrees C)	DO
B-79	1"	11:20	10.32	17.35	6	184	20	120	13.84	20	110	7.53	2.976	-157	20.6	1.57
		11:35	10.32								48.1	7.59	2.946	-159	20.6	1.42
		11:45	10.33								20.4	7.59	2.944	-160	20.8	1.29
		11:48	10.32								15.6	7.60	2.944	-160	20.8	1.20
		11:51	10.33								14.8	7.60	2.943	-160	20.8	1.23
		11:54	10.33								14.6	7.60	2.943	-161	20.8	1.21

WD = Well Diameter                      DTW = Depth to Water  
 BTW = Bottom of the Well              CPM = Cycles per Minute

REMARKS:  
 Gallons of groundwater purged during the sampling event:

Sample collected at:    11:55

clear, no sheen or odor

## ATC Groundwater Sampling Log

Client: Ports of Indiana - Former AEP Tanner's Creek  
 Project No.: 170EM00522  
 Location: 800 AEP Drive, Lawrenceburg, Indiana  
 Sampler(s): Josh Buckel

Sampling Event: Groundwater Sampling  
 Sample Date: 6/25/18  
 Equipment: Low-flow

Well ID	WD	Time	DTW (ft)	BTW (ft)	CPM Setting	Setting ID	Flow volume per cycle (mL)	Flow rate (mL/min)	Pump depth (ft)	Throttle/ Pump pressure	Turbidity (NTU)	pH (units)	Conductivity (mS/cm)	ORP (mv)	Temp (degrees C)	DO
B-80	1"	13:00	34.75	39.76	6	184	20	120	37.26	20	181	7.41	1.267	-177	19.2	0.86
		13:30	34.75								124	7.50	1.324	-201	19.2	0.26
		13:40	34.75								70.1	7.57	1.358	-212	19.1	0.12
		13:50	34.75								31.7	7.57	1.358	-212	19.2	0.00
		13:53	34.75								29.9	7.58	1.360	-213	19.1	0.00
		13:56	34.75								30.6	7.58	1.360	-213	19.1	0.00

WD = Well Diameter                      DTW = Depth to Water  
 BTW = Bottom of the Well              CPM = Cycles per Minute

REMARKS:  
 Gallons of groundwater purged during the sampling event:  
 Sample collected at:     14:00

clear, no sheen or odor

## ATC Groundwater Sampling Log

Client: Ports of Indiana - Former AEP Tanner's Creek  
 Project No.: 170EM00522  
 Location: 800 AEP Drive, Lawrenceburg, Indiana  
 Sampler(s): Josh Buckel

Sampling Event: Groundwater Sampling  
 Sample Date: 6/22/18  
 Equipment: Low-flow

Well ID	WD	Time	DTW (ft)	BTW (ft)	CPM Setting	Setting ID	Flow volume per cycle (mL)	Flow rate (mL/min)	Pump depth (ft)	Throttle/ Pump pressure	Turbidity (NTU)	pH (units)	Conductivity (mS/cm)	ORP (mv)	Temp (degrees C)	DO
B-81	1"	12:45	21.50	29.87	6	184	20	120	25.69	20	635	7.96	4.231	-146	21.3	4.96
		13:00	21.50								396	7.74	4.218	-123	21.2	5.41
		13:20	21.50								188	7.66	4.218	-115	21.3	5.47
		13:40	21.50								61	7.48	4.210	-109	21.4	1.97
		13:50	21.50								28.6	7.47	4.205	-108	21.4	1.90
		13:53	21.50								27.2	7.47	4.204	-108	21.5	1.95
		13:56	21.50								28.1	7.46	4.204	-107	21.4	1.92

WD = Well Diameter                      DTW = Depth to Water  
 BTW = Bottom of the Well              CPM = Cycles per Minute

REMARKS:  
 Gallons of groundwater purged during the sampling event:  
 Sample collected at:     14:00

collected Dup-1; clear, sheen and HC odor

## ATC Groundwater Sampling Log

Client: Ports of Indiana - Former AEP Tanner's Creek  
 Project No.: 170EM00522  
 Location: 800 AEP Drive, Lawrenceburg, Indiana  
 Sampler(s): Josh Buckel

Sampling Event: Groundwater Sampling  
 Sample Date: 6/21/18  
 Equipment: Low-flow

Well ID	WD	Time	DTW (ft)	BTW (ft)	CPM Setting	Setting ID	Flow volume per cycle (mL)	Flow rate (mL/min)	Pump depth (ft)	Throttle/ Pump pressure	Turbidity (NTU)	pH (units)	Conductivity (mS/cm)	ORP (mv)	Temp (degrees C)	DO
B-83	1"	9:15	31.21	39.04	6	184	20	120	35.13	40	159.7	6.91	1.966	-128	20.8	2.62
		9:25	31.21								18.3	6.92	1.959	-127	20.4	2.38
		9:30	31.21								7.7	7.00	1.959	-127	20.4	2.35
		9:33	31.21								8.0	7.02	1.960	-126	20.5	2.55
		9:36	31.21								7.8	7.03	1.960	-126	20.5	2.58
		9:39	31.21								7.6	7.03	1.960	-126	20.4	2.57

WD = Well Diameter                      DTW = Depth to Water  
 BTW = Bottom of the Well              CPM = Cycles per Minute

REMARKS:  
 Gallons of groundwater purged during the sampling event:  
 Sample collected at:    9:40  
 collected MS/MSD; clear, no sheen or odor

## ATC Groundwater Sampling Log

Client: Ports of Indiana - Former AEP Tanner's Creek  
 Project No.: 170EM00522  
 Location: 800 AEP Drive, Lawrenceburg, Indiana  
 Sampler(s): Josh Buckel

Sampling Event: Groundwater Sampling  
 Sample Date: 6/21/18  
 Equipment: Low-flow

Well ID	WD	Time	DTW (ft)	BTW (ft)	CPM Setting	Setting ID	Flow volume per cycle (mL)	Flow rate (mL/min)	Pump depth (ft)	Throttle/ Pump pressure	Turbidity (NTU)	pH (units)	Conductivity (mS/cm)	ORP (mv)	Temp (degrees C)	DO
B-85	1"	11:00	19.49	32.52	6	184	20	120	27.52	40	1222	7.86	1.705	-200	19.5	1.01
		11:20	19.50								1481	7.85	1.621	-325	18.2	0.42
		11:45	19.51								872	7.88	1.544	-337	18.1	0.34
		11:50	19.48								443	7.89	1.514	-342	18.1	0.45
		12:15	19.48								73.4	7.89	1.490	-322	18.1	0.82
		12:20	19.49								65.3	7.90	1.488	-328	18.1	0.66
		12:23	19.49								67.8	7.89	1.487	-327	18.0	0.68
		12:26	19.49								65.6	7.89	1.487	-328	18.0	0.65

WD = Well Diameter                      DTW = Depth to Water  
 BTW = Bottom of the Well              CPM = Cycles per Minute

**REMARKS:**

Gallons of groundwater purged during the sampling event:

Sample collected at:    12:30

clear, no sheen or odor

## ATC Groundwater Sampling Log

Client: Ports of Indiana - Former AEP Tanner's Creek  
 Project No.: 170EM00522  
 Location: 800 AEP Drive, Lawrenceburg, Indiana  
 Sampler(s): Josh Buckel

Sampling Event: Groundwater Sampling  
 Sample Date: 6/25/18  
 Equipment: Low-flow

Well ID	WD	Time	DTW (ft)	BTW (ft)	CPM Setting	Setting ID	Flow volume per cycle (mL)	Flow rate (mL/min)	Pump depth (ft)	Throttle/ Pump pressure	Turbidity (NTU)	pH (units)	Conductivity (mS/cm)	ORP (mv)	Temp (degrees C)	DO
B-87	1"	10:50	34.93	49.38	6	184	20	120	44.38	40	80.8	7.48	0.776	-200	18.3	0.96
		11:00	34.93								63.7	7.50	0.764	-206	18.2	0.74
		11:15	34.93								40.6	7.50	0.753	-210	18.2	0.70
		11:20	34.93								24.2	7.51	0.750	-211	18.2	0.66
		11:23	34.93								25.6	7.51	0.751	-212	18.1	0.63
		11:26	34.93								24.7	7.52	0.750	-212	18.1	0.61

WD = Well Diameter                      DTW = Depth to Water  
 BTW = Bottom of the Well              CPM = Cycles per Minute

REMARKS:  
 Gallons of groundwater purged during the sampling event:  
 Sample collected at:    11:30

clear, no sheen or odor

## ATC Groundwater Sampling Log

Client: Ports of Indiana - Former AEP Tanner's Creek  
 Project No.: 170EM00522  
 Location: 800 AEP Drive, Lawrenceburg, Indiana  
 Sampler(s): Josh Buckel

Sampling Event: Groundwater Sampling  
 Sample Date: 6/25/18  
 Equipment: Low-flow

Well ID	WD	Time	DTW (ft)	BTW (ft)	CPM Setting	Setting ID	Flow volume per cycle (mL)	Flow rate (mL/min)	Pump depth (ft)	Throttle/ Pump pressure	Turbidity (NTU)	pH (units)	Conductivity (mS/cm)	ORP (mv)	Temp (degrees C)	DO
B-88	1"	11:50	33.23	48.57	6	184	20	120	43.57	40	167.2	7.83	1.085	-201	19.3	0.68
		12:00	33.23								130	7.70	1.142	-206	19.1	0.53
		12:20	33.23								70.6	7.64	1.182	-212	19.1	0.47
		12:30	33.23								48.7	7.61	1.192	-215	19.1	0.42
		12:33	33.23								30.3	7.61	1.195	-214	19.0	0.37
		12:36	33.23								33.1	7.60	1.196	-215	19.0	0.36
		12:39	33.23								32.7	7.59	1.195	-215	18.9	0.34

WD = Well Diameter                      DTW = Depth to Water  
 BTW = Bottom of the Well              CPM = Cycles per Minute

REMARKS:  
 Gallons of groundwater purged during the sampling event:  
 Sample collected at:    12:40

clear, no sheen or odor



*Appendix C – Soil and Groundwater Laboratory Reports  
(Provided on CD)*

## *Appendix D – Public Water Supply Well Analytical Reports*

Olin

Clawson

Water

Sample

Results.

SDRSD - well  
370 W. Eads Pkwy  
2018  
Metals

Eagon & Associates  
Attn: Steve Champa  
100 Old Wilson Bridge Rd. Suite 115  
Worthington, OH 43085

**Lab Project #** M18-14570  
**Received:** 3/14/2018  
**Reported:** 3/22/2018  
**Date/Time Sampled:** 03/13/2018 12:20  
**Sampled By:** NAK  
**Sampled Matrix:** Groundwater  
**Containers:** 3  
**Collection Method:** Grab

**Project Name:** Lawrenceburg

**Sample ID:** SDRSD

**Lab Sample #** M18-14570-05

Analyte	Results	Units	PQL	Analyst	Extraction Date	Analysis Start Date/Time
<b>Analytical Method: EPA 300.0 Rev 2.1</b>		<b>Preparation Method:</b>			<b>Analysis Date: 3/22/2018</b>	
Chloride	36	mg/L	5.0	DAW		03/15/2018 00:07
<b>Analytical Method: SM 4500-F C-97</b>		<b>Preparation Method: Undistilled</b>			<b>Analysis Date: 3/22/2018</b>	
Fluoride	0.189	mg/L	0.100	LGE		03/15/2018 05:04
<b>Analytical Method: EPA 300.0 Rev 2.1</b>		<b>Preparation Method:</b>			<b>Analysis Date: 3/22/2018</b>	
Sulfate	120	mg/L	5.0	DAW		03/15/2018 00:07
<b>Analytical Method: SM 2540C-97</b>		<b>Preparation Method:</b>			<b>Analysis Date: 3/22/2018</b>	
Solids, Dissolved	510	mg/L	20	AKB		03/19/2018 16:00
<b>Analytical Method: EPA 200.7 Rev. 4.4</b>		<b>Preparation Method: EPA-200.7</b>			<b>Analysis Date: 3/22/2018</b>	
Boron, Total	700	ug/L	10	CMB		03/15/2018 19:06
Calcium, Total	105	mg/L	2.00	CMB		03/15/2018 19:06
Cobalt, Total	<10	ug/L	10	CMB		03/15/2018 19:06
<b>Analytical Method: EPA 200.8 Rev. 5.4</b>		<b>Preparation Method: EPA-200.8</b>			<b>Analysis Date: 3/22/2018</b>	
Antimony, Total	<3.0	ug/L	3.0	SLB		03/16/2018 09:41
Arsenic, Total	<3.0	ug/L	3.0	SLB		03/16/2018 09:41
Barium, Total	52	ug/L	10	SLB		03/16/2018 09:41
Beryllium, Total	<0.50	ug/L	0.50	SLB		03/16/2018 09:41
Cadmium, Total	<0.50	ug/L	0.50	SLB		03/16/2018 09:41
Chromium, Total	<10	ug/L	10	SLB		03/16/2018 09:41

Analysis Certified By: \_\_\_\_\_

*Rhonda C. Morris*

Rhonda C Morris

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*The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The analytical results relate only to the items tested. Analytical results are based on dry-weights for solid samples, unless otherwise specified.*

**CERTIFICATE OF ANALYSIS**  
**Reported by Alloway - Marion**

Chain of Custody attached

 Eagon & Associates  
 Attn: Steve Champa  
 100 Old Wilson Bridge Rd. Suite 115  
 Worthington, OH 43085

**Lab Project #** M18-14570  
**Received:** 3/14/2018  
**Reported:** 3/22/2018  
**Date/Time Sampled:** 03/13/2018 12:20  
**Sampled By:** NAK  
**Sampled Matrix:** Groundwater  
**Containers:** 3  
**Collection Method:** Grab

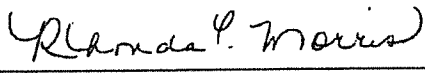
**Project Name:** Lawrenceburg

**Sample ID:** SDRSD

**Lab Sample #** M18-14570-05

Analyte	Results	Units	PQL	Analyst	Extraction Date	Analysis Start Date/Time
Lead, Total	<2.0	ug/L	2.0	SLB		03/16/2018 09:41
Lithium, Total	<10	ug/L	10	SLB		03/16/2018 10:27
Molybdenum, Total	<10	ug/L	10	SLB		03/16/2018 09:41
Selenium, Total	<3.0	ug/L	3.0	SLB		03/16/2018 09:41
Thallium, Total	<1.0	ug/L	1.0	SLB		03/16/2018 09:41
<b>Analytical Method: EPA 245.1 Rev. 3.0</b>		<b>Preparation Method: EPA-245.1</b>		<b>Analysis Date: 3/22/2018</b>		
Mercury, Total	<0.200	ug/L	0.200	LGE		03/20/2018 05:10

Analysis Certified By:



Rhonda C Morris

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LMS - Well  
 1055 Green Blvd  
 Behind Property  
  
2018  
 Metals

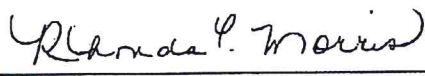
 Eagon & Associates  
 Attn: Steve Champa  
 100 Old Wilson Bridge Rd. Suite 115  
 Worthington, OH 43085

**Lab Project #** M18-14570  
**Received:** 3/14/2018  
**Reported:** 3/22/2018  
**Date/Time Sampled:** 03/13/2018 12:05  
**Sampled By:** NAK  
**Sampled Matrix:** Groundwater  
**Containers:** 3  
**Collection Method:** Grab

**Project Name:** Lawrenceburg  
  
**Sample ID:** LMS-Wilson Creek  
**Lab Sample #** M18-14570-04

Analyte	Results	Units	PQL	Analyst	Extraction Date	Analysis Start Date/Time
<b>Analytical Method: EPA 300.0 Rev 2.1</b>		<b>Preparation Method:</b>			<b>Analysis Date: 3/22/2018</b>	
Chloride	24	mg/L	5.0	DAW		03/15/2018 00:07
<b>Analytical Method: SM 4500-F C-97</b>		<b>Preparation Method: Undistilled</b>			<b>Analysis Date: 3/22/2018</b>	
Fluoride	0.307	mg/L	0.100	LGE		03/15/2018 05:04
<b>Analytical Method: EPA 300.0 Rev 2.1</b>		<b>Preparation Method:</b>			<b>Analysis Date: 3/22/2018</b>	
Sulfate	39	mg/L	5.0	DAW		03/15/2018 00:07
<b>Analytical Method: SM 2540C-97</b>		<b>Preparation Method:</b>			<b>Analysis Date: 3/22/2018</b>	
Solids, Dissolved	330	mg/L	20	AKB		03/19/2018 16:00
<b>Analytical Method: EPA 200.7 Rev. 4.4</b>		<b>Preparation Method: EPA-200.7</b>			<b>Analysis Date: 3/22/2018</b>	
Boron, Total	40	ug/L	10	CMB		03/15/2018 19:06
Calcium, Total	72.4	mg/L	2.00	CMB		03/15/2018 19:06
Cobalt, Total	<10	ug/L	10	CMB		03/15/2018 19:06
<b>Analytical Method: EPA 200.8 Rev. 5.4</b>		<b>Preparation Method: EPA-200.8</b>			<b>Analysis Date: 3/22/2018</b>	
Antimony, Total	<3.0	ug/L	3.0	SLB		03/16/2018 09:41
Arsenic, Total	<3.0	ug/L	3.0	SLB		03/16/2018 09:41
Barium, Total	30	ug/L	10	SLB		03/16/2018 09:41
Beryllium, Total	<0.50	ug/L	0.50	SLB		03/16/2018 09:41
Cadmium, Total	<0.50	ug/L	0.50	SLB		03/16/2018 09:41
Chromium, Total	<10	ug/L	10	SLB		03/16/2018 09:41

Analysis Certified By:



Rhonda C Morris

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**CERTIFICATE OF ANALYSIS**  
**Reported by Alloway - Marion**  
 Chain of Custody attached

 Eagon & Associates  
 Attn: Steve Champa  
 100 Old Wilson Bridge Rd. Suite 115  
 Worthington, OH 43085

**Lab Project #** M18-14570  
**Received:** 3/14/2018  
**Reported:** 3/22/2018  
**Date/Time Sampled:** 03/13/2018 12:05  
**Sampled By:** NAK  
**Sampled Matrix:** Groundwater  
**Containers:** 3  
**Collection Method:** Grab

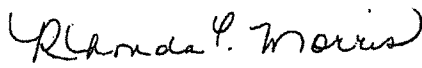
**Project Name:** Lawrenceburg

**Sample ID:** LMS-Wilson Creek

**Lab Sample #** M18-14570-04

Analyte	Results	Units	PQL	Analyst	Extraction Date	Analysis Start Date/Time
Lead, Total	<2.0	ug/L	2.0	SLB		03/16/2018 09:41
Lithium, Total	<10	ug/L	10	SLB		03/16/2018 10:27
Molybdenum, Total	<10	ug/L	10	SLB		03/16/2018 09:41
Selenium, Total	<3.0	ug/L	3.0	SLB		03/16/2018 09:41
Thallium, Total	<1.0	ug/L	1.0	SLB		03/16/2018 09:41
<b>Analytical Method: EPA 245.1 Rev. 3.0</b>			<b>Preparation Method: EPA-245.1</b>		<b>Analysis Date: 3/22/2011</b>	
Mercury, Total	<0.200	ug/L	0.200	LGE		03/20/2018 05:10

Analysis Certified By:



Rhonda C Morris

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Eagon & Associates  
 Attn: Steve Champa  
 100 Old Wilson Bridge Rd. Suite 1  
 Worthington, OH 43085

**Project Name:** Lawrenceburg

**Sample ID:** Aurora

**Lab Sample #** M18-14570-03

 Aurora - Well  
 1238 W. Eads Pkwy  
 Behind Property  
 2018  
 Metals

**Lab Project #** M18-14570  
**Received:** 3/14/2018  
**Reported:** 3/22/2018  
**Date/Time Sampled:** 03/13/2018 11:45  
**Sampled By:** NAK  
**Sampled Matrix:** Groundwater  
**Containers:** 3  
**Collection Method:** Grab

Analyte	Results	Units	PQL	Analyst	Extraction Date	Analysis Start Date/Time
<b>Analytical Method: EPA 300.0 Rev 2.1</b>		<b>Preparation Method:</b>		<b>Analysis Date: 3/22/2018</b>		
Chloride	33	mg/L	5.0	DAW		03/15/2018 00:07
<b>Analytical Method: SM 4500-F C-97</b>		<b>Preparation Method: Undistilled</b>		<b>Analysis Date: 3/22/2018</b>		
Fluoride	0.247	mg/L	0.100	LGE		03/15/2018 05:04
<b>Analytical Method: EPA 300.0 Rev 2.1</b>		<b>Preparation Method:</b>		<b>Analysis Date: 3/22/2018</b>		
Sulfate	110	mg/L	5.0	DAW		03/15/2018 00:07
<b>Analytical Method: SM 2540C-97</b>		<b>Preparation Method:</b>		<b>Analysis Date: 3/22/2018</b>		
Solids, Dissolved	480	mg/L	20	AKB		03/19/2018 16:00
<b>Analytical Method: EPA 200.7 Rev. 4.4</b>		<b>Preparation Method: EPA-200.7</b>		<b>Analysis Date: 3/22/2018</b>		
Boron, Total	1000	ug/L	50	CMB		03/15/2018 19:06
Calcium, Total	100	mg/L	2.00	CMB		03/15/2018 19:06
Cobalt, Total	<10	ug/L	10	CMB		03/15/2018 19:06
<b>Analytical Method: EPA 200.8 Rev. 5.4</b>		<b>Preparation Method: EPA-200.8</b>		<b>Analysis Date: 3/22/2018</b>		
Antimony, Total	<3.0	ug/L	3.0	SLB		03/16/2018 09:41
Arsenic, Total	<3.0	ug/L	3.0	SLB		03/16/2018 09:41
Barium, Total	44	ug/L	10	SLB		03/16/2018 09:41
Beryllium, Total	<0.50	ug/L	0.50	SLB		03/16/2018 09:41
Cadmium, Total	<0.50	ug/L	0.50	SLB		03/16/2018 09:41
Chromium, Total	<10	ug/L	10	SLB		03/16/2018 09:41

 Analysis Certified By: Rhonda C. Morris  
 Rhonda C Morris

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**CERTIFICATE OF ANALYSIS**  
**Reported by Alloway - Marion**

Chain of Custody attached

Eagon & Associates  
Attn: Steve Champa  
100 Old Wilson Bridge Rd. Suite 115  
Worthington, OH 43085

**Lab Project #** M18-14570  
**Received:** 3/14/2018  
**Reported:** 3/22/2018  
**Date/Time Sampled:** 03/13/2018 11:45  
**Sampled By:** NAK  
**Sampled Matrix:** Groundwater  
**Containers:** 3  
**Collection Method:** Grab

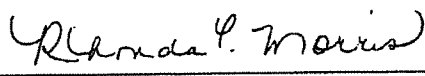
**Project Name:** Lawrenceburg

**Sample ID:** Aurora

**Lab Sample #** M18-14570-03

Analyte	Results	Units	PQL	Analyst	Extraction Date	Analysis Start Date/Time
Lead, Total	<2.0	ug/L	2.0	SLB		03/16/2018 09:41
Lithium, Total	<10	ug/L	10	SLB		03/16/2018 10:27
Molybdenum, Total	<10	ug/L	10	SLB		03/16/2018 09:41
Selenium, Total	<3.0	ug/L	3.0	SLB		03/16/2018 09:41
Thallium, Total	<1.0	ug/L	1.0	SLB		03/16/2018 09:41
<b>Analytical Method: EPA 245.1 Rev. 3.0</b>		<b>Preparation Method: EPA-245.1</b>		<b>Analysis Date: 3/22/2011</b>		
Mercury, Total	<0.200	ug/L	0.200	LGE		03/20/2018 05:10

Analysis Certified By: \_\_\_\_\_



Rhonda C Morris

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Eagon & Associates  
Attn: Steve Champa  
100 Old Wilson Bridge Rd. Su  
Worthington, OH 43085

**Project Name:** Lawrencebu

**Sample ID:** Well #4

**Lab Sample #** M18-14570-02

**Lab Project #** M18-14570  
**Received:** 3/14/2018  
**Reported:** 3/22/2018  
**Date/Time Sampled:** 03/13/2018 11:25  
**Sampled By:** NAK  
**Sampled Matrix:** Groundwater  
**Containers:** 3  
**Collection Method:** Grab

LMU - Well #4  
335 W. Eads Pkwy  
2018  
Metals

Analyte	Results	Units	PQL	Analyst	Extraction Date	Analysis Start Date/Time
<b>Analytical Method: EPA 300.0 Rev 2.1</b>		<b>Preparation Method:</b>		<b>Analysis Date: 3/22/2018</b>		
Chloride	77	mg/L	5.0	DAW		03/15/2018 00:07
<b>Analytical Method: SM 4500-F C-97</b>		<b>Preparation Method: Undistilled</b>		<b>Analysis Date: 3/22/2018</b>		
Fluoride	0.168	mg/L	0.100	LGE		03/15/2018 05:04
<b>Analytical Method: EPA 300.0 Rev 2.1</b>		<b>Preparation Method:</b>		<b>Analysis Date: 3/22/2018</b>		
Sulfate	100	mg/L	5.0	DAW		03/15/2018 00:07
<b>Analytical Method: SM 2540C-97</b>		<b>Preparation Method:</b>		<b>Analysis Date: 3/22/2018</b>		
Solids, Dissolved	590	mg/L	20	AKB		03/19/2018 16:00
<b>Analytical Method: EPA 200.7 Rev. 4.4</b>		<b>Preparation Method: EPA-200.7</b>		<b>Analysis Date: 3/22/2018</b>		
Boron, Total	190	ug/L	10	CMB		03/15/2018 19:06
Calcium, Total	121	mg/L	2.00	CMB		03/15/2018 19:06
Cobalt, Total	<10	ug/L	10	CMB		03/15/2018 19:06
<b>Analytical Method: EPA 200.8 Rev. 5.4</b>		<b>Preparation Method: EPA-200.8</b>		<b>Analysis Date: 3/22/2018</b>		
Antimony, Total	<3.0	ug/L	3.0	SLB		03/16/2018 09:41
Arsenic, Total	<3.0	ug/L	3.0	SLB		03/16/2018 09:41
Barium, Total	53	ug/L	10	SLB		03/16/2018 09:41
Beryllium, Total	<0.50	ug/L	0.50	SLB		03/16/2018 09:41
Cadmium, Total	<0.50	ug/L	0.50	SLB		03/16/2018 09:41
Chromium, Total	<10	ug/L	10	SLB		03/16/2018 09:41

Analysis Certified By: Rhonda C. Morris  
Rhonda C Morris

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**CERTIFICATE OF ANALYSIS**  
**Reported by Alloway - Marion**

Chain of Custody attached

Eagon & Associates  
Attn: Steve Champa  
100 Old Wilson Bridge Rd. Suite 115  
Worthington, OH 43085

**Lab Project #** M18-14570  
**Received:** 3/14/2018  
**Reported:** 3/22/2018  
**Date/Time Sampled:** 03/13/2018 11:25  
**Sampled By:** NAK  
**Sampled Matrix:** Groundwater  
**Containers:** 3  
**Collection Method:** Grab

**Project Name:** Lawrenceburg

**Sample ID:** Well #4

**Lab Sample #** M18-14570-02

Analyte	Results	Units	PQL	Analyst	Extraction Date	Analysis Start Date/Time
Lead, Total	<2.0	ug/L	2.0	SLB		03/16/2018 09:41
Lithium, Total	<10	ug/L	10	SLB		03/16/2018 10:27
Molybdenum, Total	<10	ug/L	10	SLB		03/16/2018 09:41
Selenium, Total	<3.0	ug/L	3.0	SLB		03/16/2018 09:41
Thallium, Total	<1.0	ug/L	1.0	SLB		03/16/2018 09:41

**Analytical Method:** EPA 245.1 Rev. 3.0

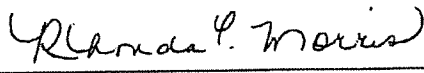
**Preparation Method:** EPA-245.1

**Analysis Date:** 3/22/2018

Mercury, Total	<0.200	ug/L	0.200	LGE		03/20/2018 05:10
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The matrix spike/matrix spike duplicate recoveries were biased below method limits.

Analysis Certified By: \_\_\_\_\_



Rhonda C Morris

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 LMO - Well # 1  
 Speedway Dr.  
 L'Boss Fairgrounds  
 2018  
 Metals

 Eagon & Associates  
 Attn: Steve Champa  
 100 Old Wilson Bridge Rd. Suite  
 Worthington, OH 43085

**Lab Project #** M18-14570  
**Received:** 3/14/2018  
**Reported:** 3/22/2018  
**Date/Time Sampled:** 03/13/2018 11:00  
**Sampled By:** NAK  
**Sampled Matrix:** Groundwater  
**Containers:** 3  
**Collection Method:** Grab

**Project Name:** Lawrencebur

**Sample ID:** Well #1  
**Lab Sample #** M18-14570-01

Analyte	Results	Units	PQL	Analyst	Extraction Date	Analysis Start Date/Time
<b>Analytical Method: EPA 300.0 Rev 2.1</b>		<b>Preparation Method:</b>		<b>Analysis Date: 3/22/2018</b>		
Chloride	37	mg/L	5.0	DAW		03/14/2018 21:02
<b>Analytical Method: SM 4500-F C-97</b>		<b>Preparation Method: Undistilled</b>		<b>Analysis Date: 3/22/2018</b>		
Fluoride	0.170	mg/L	0.100	LGE		03/15/2018 05:04
<b>Analytical Method: EPA 300.0 Rev 2.1</b>		<b>Preparation Method:</b>		<b>Analysis Date: 3/22/2018</b>		
Sulfate	35	mg/L	5.0	DAW		03/14/2018 21:02
<b>Analytical Method: SM 2540C-97</b>		<b>Preparation Method:</b>		<b>Analysis Date: 3/22/2018</b>		
Solids, Dissolved	420	mg/L	20	AKB		03/19/2018 15:20
<b>Analytical Method: EPA 200.7 Rev. 4.4</b>		<b>Preparation Method: EPA-200.7</b>		<b>Analysis Date: 3/22/2018</b>		
Boron, Total	130	ug/L	10	CMB		03/15/2018 19:06
Calcium, Total	100	mg/L	2.00	CMB		03/15/2018 19:06
Cobalt, Total	<10	ug/L	10	CMB		03/15/2018 19:06
<b>Analytical Method: EPA 200.8 Rev. 5.4</b>		<b>Preparation Method: EPA-200.8</b>		<b>Analysis Date: 3/22/2018</b>		
Antimony, Total	<3.0	ug/L	3.0	SLB		03/16/2018 09:41
Arsenic, Total	<3.0	ug/L	3.0	SLB		03/16/2018 09:41
Barium, Total	90	ug/L	10	SLB		03/16/2018 09:41
Beryllium, Total	<0.50	ug/L	0.50	SLB		03/16/2018 09:41
Cadmium, Total	<0.50	ug/L	0.50	SLB		03/16/2018 09:41

 Analysis Certified By: Rhonda C Morris  
 Rhonda C Morris

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**CERTIFICATE OF ANALYSIS**  
**Reported by Alloway - Marion**  
Chain of Custody attached

Eagon & Associates  
Attn: Steve Champa  
100 Old Wilson Bridge Rd. Suite 115  
Worthington, OH 43085

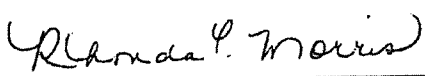
**Lab Project #** M18-14570  
**Received:** 3/14/2018  
**Reported:** 3/22/2018  
**Date/Time Sampled:** 03/13/2018 11:00  
**Sampled By:** NAK  
**Sampled Matrix:** Groundwater  
**Containers:** 3  
**Collection Method:** Grab

**Project Name:** Lawrenceburg

**Sample ID:** Well #1

**Lab Sample #** M18-14570-01

Analyte	Results	Units	PQL	Analyst	Extraction Date	Analysis Start Date/Time
Chromium, Total	<10	ug/L	10	SLB		03/16/2018 09:41
Lead, Total	<2.0	ug/L	2.0	SLB		03/16/2018 09:41
Lithium, Total	<10	ug/L	10	SLB		03/16/2018 10:27
Molybdenum, Total	<10	ug/L	10	SLB		03/16/2018 09:41
Selenium, Total	<3.0	ug/L	3.0	SLB		03/16/2018 09:41
Thallium, Total	<1.0	ug/L	1.0	SLB		03/16/2018 09:41
<b>Analytical Method: EPA 245.1 Rev. 3.0</b>			<b>Preparation Method: EPA-245.1</b>		<b>Analysis Date: 3/22/2018</b>	
Mercury, Total	<0.200	ug/L	0.200	LGE		03/20/2018 05:10

Analysis Certified By:   
Rhonda C Morris

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# Laboratory Analysis

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635 Green Road, PO Box 968, Madison, IN 47250  
 Tel: 812.273.6699 Fax: 812.273.5788

**Report To:**  
 Andrew Lyons  
 Lawrenceburg Water  
 230 Walnut Street  
 P.O. Box 4198  
 LAWRENCEBURG, IN 47025-4198

Order No.: 2016082148  
 PO No.:  
 Date Received: 08/16/2016  
 Report Date: 09/13/2016  
 Project Name: WATER QUALITY

*LMU - Well #2  
 Speedway Dr.  
 L'Burg Fairgrounds  
 2016  
 Total Water Quality*

Order Number	Lab Id	Matrix	Location	Date Collected	Time Collected	Collected By	Description	Status
2016082148	CAL		Fairgrounds Lawrenceburg	8/16/2016	09:30	AL	RAW WATER	Reported

Test Name	Results	Units	Analyst	Detection Limit	Test Method	Analysis Date
Aggressive Index	12.07	Calculation	DD		AWWA-1946	9/13/2016
Ryznar Index	6.32	Calculation	DD		AWWA-1946	9/13/2016
Corrosivity, (Langelier Index)	0.62	Calculation	DD		SM-2330B	9/13/2016

Comments:

Order Number	Lab Id	Matrix	Location	Date Collected	Time Collected	Collected By	Description	Status
2016082148	P0816-438		WELL #2 LAWRENCEBURG FAIRGROUNDS	8/16/2016	09:30	AL	RAW WATER	Reported

Test Name	Results	Units	Analyst	Detection Limit	Test Method	Analysis Date
Alkalinity, Total (EP-pH=4.5)	288	mg/L as CaCO3	KS	2.0	SM-2320B	8/22/2016
Chloride	41.9	mg/L	HW	0.03	EPA 300.1	8/24/2016
Conductivity	668	µmhos/cm	DD	1.0	SM-2510B	9/13/2016
Fluoride, Adjusted	0.162	mg/L	HW	0.02	EPA 300.1	8/24/2016
pH	7.55	S.U.	KS	0.10	SM-4500H+B	8/18/2016
Sulfate	41.9	mg/L	HW	0.2	EPA 300.1	8/24/2016
Solids, Dissolved Total	440	mg/L	ZB	1.0	SM-2540C	8/19/2016
Solids, Suspended Total	<1.0	mg/L	ZB	1.0	SM-2540D	8/17/2016

Comments:

Order Number	Lab Id	Matrix	Location	Date Collected	Time Collected	Collected By	Description	Status
2016082148	P0816-439		WELL #2 LAWRENCEBURG FAIRGROUNDS	8/16/2016	09:30	AL	RAW WATER	Reported

Test Name	Results	Units	Analyst	Detection Limit	Test Method	Analysis Date
Calcium, Total Rec.-(ICP)	115	mg/L	DD	0.2	EPA 200.7	8/24/2016
Magnesium, Total Rec.-(ICP)	29.0	mg/L	DD	0.5	EPA 200.7	8/24/2016
Sodium, Total Rec.-(ICP)	21.1	mg/L	DD	0.5	EPA 200.7	8/24/2016

# Laboratory Analysis

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635 Green Road, PO Box 968, Madison, IN 47250  
Tel: 812.273.6699 Fax: 812.273.5788

**Report To:**

Andrew Lyons  
Lawrenceburg Water  
230 Walnut Street  
P.O. Box 4198  
LAWRENCEBURG, IN 47025-9085

Order No.: 2016082148  
PO No.:  
Date Received: 08/16/2016  
Report Date: 09/13/2016  
Project Name: WATER QUALITY

Potassium, Total Rec.-(ICP)	2.10	mg/L	DD	0.5	EPA 200.7	8/24/2016
Hardness, Total- as CaCO3	407	mg/L	DD	1.0	SM-2340B	8/24/2016
Hardness-(Ca)- as CaCO3	288	mg/L	DD	1.0	SM-2340B	8/24/2016
Hardness-(Mg)- as CaCO3	119	mg/L	DD	1.0	SM-2340B	8/24/2016
Hardness-(Mg)- as MgCO3	100	mg/L	DD	1.0	SM-2340B	8/24/2016
Iron, Total Rec.-(ICP)	0.122	mg/L	DD	0.005	EPA 200.7	8/24/2016
Manganese, Total Rec.-(ICP)	0.042	mg/L	DD	0.003	EPA 200.7	8/24/2016
Metal Digestion (ICP)	DONE		BD		EPA 200.7	8/19/2016
Comments:						

Approved by:

Diana Dupraw, Ph.D., QC Officer

Whitney Wu, Ph.D., Lab Manager



629 Washington St., Suite 300  
Columbus Indiana 47201-  
8123750531

Joe Paszek  
Bastin-Logan  
P.O. Box 55  
237 W. Monroe St.  
Franklin, IN 46131  
TEL: 317-738-4577  
FAX (317) 738-9295

RE:

Dear Joe Paszek:

LMU - Well #4  
335 W. Eads Pkwy  
2006  
Contaminant Screening  
for newly installed well.

August 21, 2006  
Order No.: C06070703

Sherry Laboratories received 1 sample on 7/27/06 for the analyses presented in the following report.

In accordance with your instructions, Sherry Laboratories conducted the analysis on samples submitted by your company. The results are shown on the following report. The results relate only to the items tested. Unless otherwise noted, all analysis was conducted using EPA approved methodologies. Subcontracted tests are indicated by "SUB" as the analyst. All relevant sampling information is recorded on the attached chain-of-custody form.

Certifications/Accreditations: IN# C-03-02 Col IN# C-18-02 Mun IN# C-02-02 Ftw  
IN# M-3-2 Col IN# M-18-5 Mun

If you have any questions regarding these test results, please feel free to call.

This report contains 26 pages.

Approved By: Paul Carter





# SHERRY Laboratories

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Columbus Indiana 47201-  
8123750531

<b>CLIENT:</b> Bastin-Logan	<b>Client Sample ID:</b> Lawrenceburg Well #4
<b>Lab Order:</b> C06070703	<b>Tag Number:</b>
<b>Project:</b>	<b>Collection Date:</b> 7/27/06 9:00:00 AM
<b>Lab ID:</b> C06070703-01A	<b>Matrix:</b> DRINKING WATER
<b>Date Received:</b> 27-Jul-06	<b>Date Reported:</b> 21-Aug-06

Analyses	Result	Detection Limit	Qual	Units	Date Analyzed	Analyst
<b>VOCS IN DRINKING WATER</b>		<b>E524.2</b>				<b>SUB</b>
1,1,1,2-Tetrachloroethane	ND	0.50		ppb	8/3/06 12:21:00 A	
1,1,1-Trichloroethane	ND	0.50		ppb	8/3/06 12:21:00 A	
1,1,2,2-Tetrachloroethane	ND	0.50		ppb	8/3/06 12:21:00 A	
1,1,2-Trichloroethane	ND	0.50		ppb	8/3/06 12:21:00 A	
1,1-Dichloroethane	ND	0.50		ppb	8/3/06 12:21:00 A	
1,1-Dichloroethene	ND	0.50		ppb	8/3/06 12:21:00 A	
1,1-Dichloropropene	ND	0.50		ppb	8/3/06 12:21:00 A	
1,2,3-Trichloropropane	ND	0.50		ppb	8/3/06 12:21:00 A	
1,2,4-Trichlorobenzene	ND	0.50		ppb	8/3/06 12:21:00 A	
1,2-Dichlorobenzene	ND	0.50		ppb	8/3/06 12:21:00 A	
1,2-Dichloroethane	ND	0.50		ppb	8/3/06 12:21:00 A	
1,2-Dichloropropane	ND	0.50		ppb	8/3/06 12:21:00 A	
1,3-Dichlorobenzene	ND	0.50		ppb	8/3/06 12:21:00 A	
1,3-Dichloropropane	ND	0.50		ppb	8/3/06 12:21:00 A	
1,4-Dichlorobenzene	ND	0.50		ppb	8/3/06 12:21:00 A	
2,2-Dichloropropane	ND	0.50		ppb	8/3/06 12:21:00 A	
2-Chlorotoluene	ND	0.50		ppb	8/3/06 12:21:00 A	
4-Chlorotoluene	ND	0.50		ppb	8/3/06 12:21:00 A	
Benzene	ND	0.50		ppb	8/3/06 12:21:00 A	
Bromobenzene	ND	0.50		ppb	8/3/06 12:21:00 A	
Bromomethane	ND	0.50		ppb	8/3/06 12:21:00 A	
Carbon tetrachloride	ND	0.50		ppb	8/3/06 12:21:00 A	
Chlorobenzene	ND	0.50		ppb	8/3/06 12:21:00 A	
Chloroethane	ND	0.50		ppb	8/3/06 12:21:00 A	
Chloromethane	ND	0.50		ppb	8/3/06 12:21:00 A	
cis-1,2-Dichloroethene	ND	0.50		ppb	8/3/06 12:21:00 A	
cis-1,3-Dichloropropene	ND	0.50		ppb	8/3/06 12:21:00 A	
Dibromomethane	ND	0.50		ppb	8/3/06 12:21:00 A	
Ethylbenzene	ND	0.50		ppb	8/3/06 12:21:00 A	
Methyl tert-butyl ether	ND	0.50		ppb	8/3/06 12:21:00 A	
Methylene chloride	ND	0.50		ppb	8/3/06 12:21:00 A	
Styrene	ND	0.50		ppb	8/3/06 12:21:00 A	

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits  
 B - Analyte detected in the associated Method Blank      MI+ - Matrix Interference  
 \* - Value exceeds MCL or Permit Limitation      H - Exceeds Holding Time



# SHERRY Laboratories

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Columbus Indiana 47201-  
8123750531

<b>CLIENT:</b> Bastin-Logan	<b>Client Sample ID:</b> Lawrenceburg Well #4
<b>Lab Order:</b> C06070703	<b>Tag Number:</b>
<b>Project:</b>	<b>Collection Date:</b> 7/27/06 9:00:00 AM
<b>Lab ID:</b> C06070703-01A	<b>Matrix:</b> DRINKING WATER
<b>Date Received:</b> 27-Jul-06	<b>Date Reported:</b> 21-Aug-06

Analyses	Result	Detection Limit	Qual	Units	Date Analyzed	Analyst
Tetrachloroethene	ND	0.50		ppb	8/3/06 12:21:00 A	
Toluene	ND	0.50		ppb	8/3/06 12:21:00 A	
trans-1,2-Dichloroethene	ND	0.50		ppb	8/3/06 12:21:00 A	
trans-1,3-Dichloropropene	ND	0.50		ppb	8/3/06 12:21:00 A	
Trichloroethene	ND	0.50		ppb	8/3/06 12:21:00 A	
Vinyl chloride	ND	0.50		ppb	8/3/06 12:21:00 A	
Xylenes, Total	ND	0.50		ppb	8/3/06 12:21:00 A	
Surr: 1,2-Dichlorobenzene-d4	87.2	70-130		%REC	8/3/06 12:21:00 A	
Surr: Bromofluorobenzene	93.9	70-130		%REC	8/3/06 12:21:00 A	
m,p-Xylene	ND	0.50		ppb	8/3/06 12:21:00 A	
o-Xylene	ND	0.50		ppb	8/3/06 12:21:00 A	
<b>ALKALINITY; TOTAL, CARB, BICARB</b>	<b>M2320 B</b>					<b>SMM</b>
Alkalinity, Total (As CaCO3)	299	5.00		ppm	8/8/06	
<b>CHLORIDE</b>	<b>E325.2</b>					<b>SUB</b>
Chloride	73.9	5.0		ppm	8/3/06	
<b>CYANIDE IN DW, TOTAL</b>	<b>M4500-CN CE</b>					<b>SUB</b>
Cyanide	ND	0.020		ppm	8/2/06	
<b>DISSOLVED OXYGEN</b>	<b>E360.2</b>					<b>TMS</b>
Oxygen, Dissolved	6.93	1.00		ppm	7/27/06 1:30:00 P	
<b>FLUORIDE IN DRINKING WATER</b>	<b>M4500-F C</b>					<b>SUB</b>
Fluoride	0.15	0.10		ppm	8/12/06	
<b>MERCURY IN DRINKING WATER</b>	<b>E245.1</b>					<b>SUB</b>
Mercury	ND	0.00010		ppm	8/4/06	
<b>CORROSIVITY, LANGELIER CALCULATION</b>	<b>A203</b>					<b>POG</b>
Langelier Value	+ 0.05	0		SI	8/19/06	
<b>METALS IN DW BY GFAA</b>	<b>E200.9</b>					<b>SUB</b>
Antimony	ND	0.00100		ppm	8/11/06	
Arsenic	ND	0.00500		ppm	8/3/06	
Lead	ND	0.00400		ppm	8/11/06	
Selenium	ND	0.00500		ppm	8/3/06	

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	MI+ - Matrix Interference
	* - Value exceeds MCL or Permit Limitation	H - Exceeds Holding Time



# SHERRY Laboratories

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Columbus Indiana 47201-  
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<b>CLIENT:</b> Bastin-Logan	<b>Client Sample ID:</b> Lawrenceburg Well #4
<b>Lab Order:</b> C06070703	<b>Tag Number:</b>
<b>Project:</b>	<b>Collection Date:</b> 7/27/06 9:00:00 AM
<b>Lab ID:</b> C06070703-01A	<b>Matrix:</b> DRINKING WATER
<b>Date Received:</b> 27-Jul-06	<b>Date Reported:</b> 21-Aug-06

Analyses	Result	Detection Limit	Qual	Units	Date Analyzed	Analyst
Thallium	ND	0.00100		ppm	8/10/06	
<b>METALS BY ICP FOR DW</b>	<b>E200.7</b>					<b>SUB</b>
Barium	0.0501	0.0200		ppm	8/1/06 10:45:39 A	
Beryllium	ND	0.00200		ppm	8/1/06 10:45:39 A	
Cadmium	ND	0.00200		ppm	8/1/06 10:45:39 A	
Calcium	102	0.0500		ppm	8/1/06 10:45:39 A	
Chromium	ND	0.00500		ppm	8/1/06 10:45:39 A	
Copper	ND	0.00400		ppm	8/1/06 10:45:39 A	
Iron	ND	0.0200		ppm	8/1/06 10:45:39 A	
Manganese	ND	0.0100		ppm	8/1/06 10:45:39 A	
Silver	ND	0.0100		ppm	8/1/06 10:45:39 A	
Sodium	31.8	0.200		ppm	8/3/06 1:45:18 PM	
Zinc	ND	0.0100		ppm	8/1/06 10:45:39 A	
<b>NITRITE IN DW</b>	<b>M4500-NO2 B</b>					<b>HEB</b>
Nitrogen, Nitrite	ND	0.005		ppm	7/28/06 10:00:00 A	
<b>NITRATE IN DW</b>	<b>M4500-NO3 D</b>					<b>HEB</b>
Nitrogen, Nitrate (As N)	1.27	1.00		ppm	8/3/06	
<b>PH</b>	<b>E150.1</b>					<b>TMS</b>
pH	7.19	0.10		pH units	7/27/06 1:20:00 P	
<b>SULFATE</b>	<b>E375.2</b>					<b>SUB</b>
Sulfate	80.6	10		ppm	8/8/06	
<b>TOTAL DISSOLVED SOLIDS</b>	<b>E160.1</b>					<b>SMM</b>
Total Dissolved Solids (Residue, Filterable)	578	30		ppm	7/27/06	
<b>TEMPERATURE</b>	<b>M2550B</b>					<b>GLP</b>
Temperature	10	1.0		°C	7/27/06	
<b>TRihalOMETHANES IN DW</b>	<b>E524.2</b>					<b>SUB</b>
Bromodichloromethane	ND	0.50		ppb	7/31/06 6:55:00 A	
Bromoform	ND	0.50		ppb	7/31/06 6:55:00 A	
Chloroform	ND	0.50		ppb	7/31/06 6:55:00 A	

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	MI+ - Matrix Interference
	* - Value exceeds MCL or Permit Limitation	H - Exceeds Holding Time



# SHERRY Laboratories

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Columbus Indiana 47201-  
8123750531

<b>CLIENT:</b> Bastin-Logan	<b>Client Sample ID:</b> Lawrenceburg Well #4
<b>Lab Order:</b> C06070703	<b>Tag Number:</b>
<b>Project:</b>	<b>Collection Date:</b> 7/27/06 9:00:00 AM
<b>Lab ID:</b> C06070703-01A	<b>Matrix:</b> DRINKING WATER
<b>Date Received:</b> 27-Jul-06	<b>Date Reported:</b> 21-Aug-06

Analyses	Result	Detection Limit	Qual	Units	Date Analyzed	Analyst
Dibromochloromethane	ND	0.50		ppb	7/31/06 6:55:00 A	
Total Trihalomethanes	ND	0.50		ppb	7/31/06 6:55:00 A	
Surr: 1,2-Dichlorobenzene-d4	103	70-130		%REC	7/31/06 6:55:00 A	
Surr: Bromofluorobenzene	104	70-130		%REC	7/31/06 6:55:00 A	
<b>TURBIDITY</b>	<b>E180.1</b>					<b>HEB</b>
Turbidity	0.200	0.0500		NTU	7/28/06	

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	MI+ - Matrix Interference
	* - Value exceeds MCL or Permit Limitation	H - Exceeds Holding Time

Page 1 of 2  
8/16/06**SUBMITTED TO:**


Gail Pickens  
Sherry Laboratories  
629 Washington St., Suite 300  
Columbus, IN 47201


**REFERENCE DATA:**

Client Sample Nos.:	C06070703-01A
P.O. Number:	Not Available
Sample Location:	Not Available
Sample Type:	Drinking Water
Method Reference:	Asbestos in Potable Water by TEM EPA 600/4-83-043, Method 100.1
DCL Set ID No.:	06-T-3735
DCL Sample ID Nos.:	06-23609

The samples indicated on the following data sheet(s) were analyzed by Transmission Electron Microscopy (TEM) for asbestos using the method EPA 600/4-83-043, Method 100.1. Each sample was ultrasonically treated in its original container for 15 minutes to suspend the solids. An aliquot of this suspension was added to 100 mL of de-ionized water and filtered onto a 0.1µm pore size polycarbonate filter. Portions of this filter were coated with carbon and mounted on grids for TEM analysis. Analysis was performed on a Philips CM-12 TEM with EDAX Genesis System providing energy dispersive X-ray analysis (EDXA) capabilities.

Results apply only to portions of samples analyzed and are tabulated on the following data sheet(s). Representative EDXA spectra and selected area electron diffraction (SAED) measurements of asbestos types detected (if any) are included and are referenced to the structure identification numbers listed on the count sheets. The limit of detection (LOD) for this method has been determined to be one asbestos fiber in the total number of grid openings analyzed. The number of openings analyzed is dependent on the sample volume filtered (4 minimum).

  
Angela Sohn  
Analyst

  
Anna Marie Ristich  
Section Manager

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CINCINNATI OFFICE  
4388 GLENDALE-MILFORD ROAD  
CINCINNATI, OHIO 45242-3706  
513 733-5338, FAX 513 733-5347

WEST COAST OFFICE  
11 SANTA YORMA COURT  
NOVATO, CALIFORNIA 94945  
800 280-8071, FAX 415 893-9469

Page 2 of 2  
8/16/06**DataChem Laboratories Test Report  
Asbestos in Drinking Water by TEM**

DCL Sample Set ID: 06-T-3735

Client: Sherry Laboratories

Sample Location: Not Available

**SAMPLE PREP DATA**

Date Received: 7/28/2006  
 Date Filtered: 7/28/2006  
 Time Filtered: 17:15  
 Filter Type: PC, 0.1  $\mu\text{m}$   
 Filter Size: 47 mm  
 Collection Area: 1075 mm<sup>2</sup>


**ANALYSIS DATA**


Date Analyzed: 8/15/2006  
 Magnification: 11,800 X  
 Calibration Constant: 1 cm = 0.85  $\mu\text{m}$   
 EDXA Resolution: 159.4 eV  
 Accelerating Voltage: 100 keV  
 Camera Constant: 31.97 mm-Å

**SAMPLE IDENTIFICATION**

Client ID:	C06070703-01A
DCL ID:	06-23609
Date Sampled:	7/27/06
Time Sampled:	09:00
Volume (L):	0.100
No. Grid Openings Analyzed:	6
Average Grid Opening Area:	0.0102
LOD (MFL):	0.13
<b>Asbestos Fibers <math>\geq 10</math> microns</b>	
Chrysotile:	0
Amosite:	0
Crocidolite:	0
Actinolite-Tremolite:	0
Anthophyllite:	0
<b>TOTAL ASBESTOS</b>	
Count:	0
Concentration (MFL):	<LOD

ND = None Detected LOD = Limit of Detection MFL = Millions of Fibers per Liter

  
 Angela Sohn  
 Analyst

  
 Anna Marie Ristich  
 Section Manager

This report shall not be reproduced except in full, without the written approval of DataChem Laboratories.

**Indiana Department of Environmental Management  
 OWM - Drinking Water Branch  
 Synthetic Organic Compounds in Drinking Water**

Return Completed Form To: Indiana Department of Environmental Management P.O. Box 7148 Indianapolis, IN 46207-7148	Sample Receipt Date: 07/28/06 QA Review Date: 08/17/06 Report Date: 08/17/06 PWSID#:	Laboratory Name: Underwriters Laboratories, Inc. Laboratory Certification #: C-71-01 Laboratory Report #: 167697 Contact Person: Jessie Varab Phone: 574-233-4777
Date Sampled: 07/27/06 Sample ID#: 1471271-72,74-76,78,80-81 Sample Type: <input type="checkbox"/> Routine - Annual <input type="checkbox"/> Routine - Quarterly <input type="checkbox"/> Detection Monitoring <input type="checkbox"/> Confirmation Sample <input type="checkbox"/> Special Purpose	PWS Facility Name: Bastin Logan PWS Address:  Sampling Site: Kitchen# 1	Comments: * UL has demonstrated it can achieve these report limits in reagent water, but cannot document them in all sample matrices.  ** Aroclor 1016 0.08; Aroclor 1221 2.0; Aroclor 1232 0.5; Aroclor 1242 0.3; Aroclor 1248 0.1; Aroclor 1254 0.1; Aroclor 1260 0.2 Any positive Aroclor result would require analysis for total PCB as decachlorobiphenyl by method 508A (MCL = 0.5 ug/L).
Location Code:		

Does the system chlorinate their water?	Yes	<input checked="" type="checkbox"/>	No	Was the sample dechlorinated at the laboratory?	Yes	<input checked="" type="checkbox"/>	No
---	-----	-------------------------------------	----	---	-----	-------------------------------------	----

Has this information been sent to IDEM by the laboratory?	Yes	<input checked="" type="checkbox"/>	No
---	-----	-------------------------------------	----

Field Treatment:	Iced	<input checked="" type="checkbox"/>	Na2S2O3	<input checked="" type="checkbox"/>	HCl	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	CH2ClCOOH	<input checked="" type="checkbox"/>	Other (explain)	Na2SO3
------------------	------	-------------------------------------	---------	-------------------------------------	-----	-------------------------------------	-------	-------------------------------------	-----------	-------------------------------------	-----------------	--------

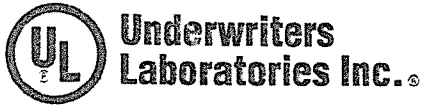
Com- pound ID #	Parameter	Method #	Analysis Date	D.L. * ug/L	Result ug/L	MCL ug/L	Com- pound ID #	Parameter	Method #	Analysis Date	D.L. * ug/L	Result ug/L
-----------------------	-----------	-------------	------------------	----------------	----------------	-------------	-----------------------	-----------	-------------	------------------	----------------	----------------

Regulated Contaminants							Unregulated Contaminants					
2051	Alachlor (Lasso)	525.2	08/07/06	0.1	< 0.1	2	2047	Aldicarb	531.1	08/05/06	0.5	< 0.5
2050	Atrazine	525.2	08/07/06	0.1	< 0.1	3	2044	Aldicarb Sulfone	531.1	08/05/06	0.7	< 0.7
2306	Benzo[a]pyrene	525.2	08/07/06	0.02	< 0.02	0.2	2043	Aldicarb Sulfoxide	531.1	08/05/06	0.5	< 0.5
2046	Carbofuran	531.1	08/05/06	0.9	< 0.9	40	2356	Aldrin	525.2	08/07/06	0.1	< 0.1
2059	Chlordane (alpha & gamma)	505	08/03/06	0.1	< 0.1	2	2076	Butachlor	525.2	08/07/06	0.1	< 0.1
	2,4-D	515.3	08/04/06	0.1	< 0.1	70	2021	Carbaryl	531.1	08/05/06	0.5	< 0.5
2031	Dalapon	515.3	08/04/06	1.0	< 1.0	200	2440	Dicamba	515.3	08/04/06	0.1	< 0.1
2931	DBCP	504.1	08/05/06	0.01	< 0.01	0.2	2070	Dieldrin	525.2	08/07/06	0.1	< 0.1
2041	Dinoseb	515.3	08/04/06	0.1	< 0.1	7	2066	3-Hydroxycarbofuran	531.1	08/05/06	0.5	< 0.5
2063	2,3,7,8-TCDD (Dioxin)					3.0 e-5	2022	Methomyl	531.1	08/05/06	0.5	< 0.5
2032	Diquat	549.2	07/31/06	0.4	< 0.4	20	2045	Metolachlor	525.2	08/07/06	0.1	< 0.1
2035	Di(2-ethylhexyl)adipate	525.2	08/07/06	0.6	< 0.6	400	2595	Metribuzin	525.2	08/07/06	0.1	< 0.1
2039	Di(2-ethylhexyl)phthalate	525.2	08/07/06	0.6	< 0.6	6	2077	Propachlor	525.2	08/07/06	0.1	< 0.1
2033	Endothal	548.1	08/02/06	9.0	< 9.0	100						
2005	Endrin	525.2	08/07/06	0.01	< 0.01	2						
2946	Ethylene Dibromide (EDB)	504.1	08/05/06	0.01	< 0.01	0.05						
2034	Glyphosate (Round-up)	547	08/08/06	6.0	< 6.0	700						
2065	Heptachlor	525.2	08/07/06	0.04	< 0.04	0.4						
2067	Heptachlor epoxide	525.2	08/07/06	0.02	< 0.02	0.2						
2274	Hexachlorobenzene	525.2	08/07/06	0.1	< 0.1	1						
2042	Hexachlorocyclopentadiene	525.2	08/07/06	0.1	< 0.1	50						
2010	Lindane (gamma-BHC)	525.2	08/07/06	0.02	< 0.02	0.2						
2015	Methoxychlor	525.2	08/07/06	0.1	< 0.1	40						
2036	Oxamyl (Vydate)	531.1	08/05/06	1.0	< 1.0	200						
2326	Pentachlorophenol	515.3	08/04/06	0.04	< 0.04	1						
2040	Picloram (Tordon)	515.3	08/04/06	0.1	< 0.1	500						
2383	PCBs	505	08/03/06	--	< **	0.5						
	Simazine	525.2	08/07/06	0.07	< 0.07	4						
	2,4,5-TP (Silvex)	515.3	08/04/06	0.1	< 0.1	50						
2020	Toxaphene	505	08/03/06	1.0	< 1.0	3						

Note: Sherry Laboratories sample I.D. # C05070703-01A

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Reviewed by: <i>Stephane Watson</i>	Date: <i>8/16/06</i>	Finalized by: <i>Jessie Varab</i>	Date: <i>8-16-06</i>
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**Water Quality Report**  
 South Bend Office  
 110 South Hill Street  
 South Bend, IN 46617-2702 USA  
 www.ul.com/water  
 tel: 1 574 233 4777  
 fax: 1 574 233 8207  
 Customer Service: 1 800 332 4345

## Laboratory Report

Client: Sherry Laboratories  
 Attn: Gail Pickens  
 629 Washington Street, Suite 300  
 Columbus, IN 47201

Report: 167697  
 Priority: Standard Written  
 Status: Final  
 PWS ID: Not Supplied

Copies to: None

### Sampling Points

- C06070703-01A

### Sample Information

UL ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
1471271	C06070703-01A	531.1	07/27/06 09:00	Client	07/28/06 09:45
1471272	C06070703-01A	515.3	07/27/06 09:00	Client	07/28/06 09:45
1471273	C06070703-01A	2120 B	07/27/06 09:00	Client	07/28/06 09:45
1274	C06070703-01A	549.2	07/27/06 09:00	Client	07/28/06 09:45
1275	C06070703-01A	504.1	07/27/06 09:00	Client	07/28/06 09:45
1471276	C06070703-01A	548.1	07/27/06 09:00	Client	07/28/06 09:45
1471277	C06070703-01A	7110 B	07/27/06 09:00	Client	07/28/06 09:45
1471278	C06070703-01A	547	07/27/06 09:00	Client	07/28/06 09:45
1471279	C06070703-01A	140.1	07/27/06 09:00	Client	07/28/06 09:45
1471280	C06070703-01A	525.2	07/27/06 09:00	Client	07/28/06 09:45
1471281	C06070703-01A	505	07/27/06 09:00	Client	07/28/06 09:45
1471282	C06070703-01A	7500-Ra B	07/27/06 09:00	Client	07/28/06 09:45
1471282	C06070703-01A	7500-Ra D	07/27/06 09:00	Client	07/28/06 09:45
1471283	C06070703-01A	5540 C	07/27/06 09:00	Client	07/28/06 09:45

### Report Summary

Note: Foaming agent analysis performed by ELAB, Inc, Ormond Beach, Fl.

Detailed quantitative results are presented on the following pages.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Jessie Varab at (574) 233-4777.

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JL is accredited by the National Environmental Laboratory Accreditation Program (NELAP). This report satisfies the requirements of your project but has not been prepared to comply with NELAP reporting requirements.



*Stephanie Watson*

Reviewed By

*Reporter*

Title

*8/16/06*

Date

*Cassie Yarb*

Finalized By

*PH*

Title

*8-16-06*

Date

Client Name: Sherry Laboratories

Report #: 167697



**General Chemistry**

Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
---	Odor	140.1	3 ^	1.0	< 1.0	TON	---	07/28/06 15:28	1471279
---	Color (Apparent)	2120 B	15 ^	5.0	< 5.0	PVCo units	---	07/28/06 15:04	1471273

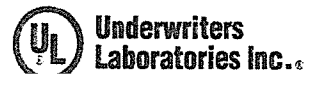
**Radionuclides**

Analyte ID #	Analyte	Method	Reg Limit	DL**	Result	Units	Preparation Date	Analyzed	UL ID #
---	Gross Alpha	7110 B	15 *	2.9	2.5 ± 1.9	pCi/L	08/01/06 08:55	08/02/06 10:55	1471277
13982-63-3	Radium-226	7500-Ra B	---	0.29	0.21 ± 0.20	pCi/L	07/31/06 10:15	08/07/06 08:52	1471282
15262-20-1	Radium-228	7500-Ra D	---	0.69	0.22 ± 0.43	pCi/L	07/31/06 10:15	08/04/06 11:19	1471282
---	Combined Radium	calc.	5 *	---	0	pCi/L	07/31/06 10:15	08/07/06 08:52	1471282

\* Detection Limit (DL) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

**Semi-volatile Organic Chemicals**

Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	UL ID #
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	504.1	0.2 *	0.01	< 0.01	ug/L	08/04/06 10:48	08/05/06 00:56	1471275
106-93-4	1,2-Dibromoethane (EDB)	504.1	0.05 *	0.01	< 0.01	ug/L	08/04/06 10:48	08/05/06 00:56	1471275
12674-11-2	Aroclor 1016	505	---	0.08	< 0.08	ug/L	08/02/06 13:33	08/03/06 01:40	1471281
11104-28-2	Aroclor 1221	505	---	2.0	< 2.0	ug/L	08/02/06 13:33	08/03/06 01:40	1471281
11141-16-5	Aroclor 1232	505	---	0.5	< 0.5	ug/L	08/02/06 13:33	08/03/06 01:40	1471281
11141-21-9	Aroclor 1242	505	---	0.3	< 0.3	ug/L	08/02/06 13:33	08/03/06 01:40	1471281
12674-2-29-6	Aroclor 1248	505	---	0.1	< 0.1	ug/L	08/02/06 13:33	08/03/06 01:40	1471281
11097-69-1	Aroclor 1254	505	---	0.1	< 0.1	ug/L	08/02/06 13:33	08/03/06 01:40	1471281
11096-82-5	Aroclor 1260	505	---	0.2	< 0.2	ug/L	08/02/06 13:33	08/03/06 01:40	1471281
57-74-9	Chlordane	505	2 *	0.1	< 0.1	ug/L	08/02/06 13:33	08/03/06 01:40	1471281
8001-35-2	Toxaphene	505	3 *	1.0	< 1.0	ug/L	08/02/06 13:33	08/03/06 01:40	1471281
94-75-7	2,4-D	515.3	70 *	0.1	< 0.1	ug/L	08/01/06 10:35	08/04/06 15:53	1471272
75-99-0	Dalapon	515.3	200 *	1.0	< 1.0	ug/L	08/01/06 10:35	08/04/06 15:53	1471272
1918-00-9	Dicamba	515.3	---	0.1	< 0.1	ug/L	08/01/06 10:35	08/04/06 15:53	1471272
88-85-7	Dinoseb	515.3	7 *	0.1	< 0.1	ug/L	08/01/06 10:35	08/04/06 15:53	1471272
87-86-5	Pentachlorophenol	515.3	1 *	0.04	< 0.04	ug/L	08/01/06 10:35	08/04/06 15:53	1471272
1918-02-1	Picloram	515.3	500 *	0.1	< 0.1	ug/L	08/01/06 10:35	08/04/06 15:53	1471272
93-72-1	2,4,5-TP (Silvex)	515.3	50 *	0.1	< 0.1	ug/L	08/01/06 10:35	08/04/06 15:53	1471272
15972-60-8	Alachlor	525.2	2 *	0.1	< 0.1	ug/L	08/04/06 08:32	08/07/06 23:46	1471280
309-00-2	Aldrin	525.2	---	0.1	< 0.1	ug/L	08/04/06 08:32	08/07/06 23:46	1471280
1912-24-9	Atrazine	525.2	3 *	0.1	< 0.1	ug/L	08/04/06 08:32	08/07/06 23:46	1471280
50-32-8	Benzo[a]pyrene	525.2	0.2 *	0.02	< 0.02	ug/L	08/04/06 08:32	08/07/06 23:46	1471280
58-89-9	gamma-BHC (Lindane)	525.2	0.2 *	0.02	< 0.02	ug/L	08/04/06 08:32	08/07/06 23:46	1471280
23184-66-9	Butachlor	525.2	---	0.1	< 0.1	ug/L	08/04/06 08:32	08/07/06 23:46	1471280
60-57-1	Dieldrin	525.2	---	0.1	< 0.1	ug/L	08/04/06 08:32	08/07/06 23:46	1471280
103-23-1	Di(2-ethylhexyl)adipate	525.2	400 *	0.6	< 0.6	ug/L	08/04/06 08:32	08/07/06 23:46	1471280
117-81-7	Di(2-ethylhexyl)phthalate	525.2	6 *	0.6	< 0.6	ug/L	08/04/06 08:32	08/07/06 23:46	1471280
72-20-8	Endrin	525.2	2 *	0.01	< 0.01	ug/L	08/04/06 08:32	08/07/06 23:46	1471280
76-44-8	Heptachlor	525.2	0.4 *	0.04	< 0.04	ug/L	08/04/06 08:32	08/07/06 23:46	1471280
57-3	Heptachlor epoxide	525.2	0.2 *	0.02	< 0.02	ug/L	08/04/06 08:32	08/07/06 23:46	1471280
118-74-1	Hexachlorobenzene	525.2	1 *	0.1	< 0.1	ug/L	08/04/06 08:32	08/07/06 23:46	1471280
77-47-4	Hexachlorocyclopentadiene	525.2	50 *	0.1	< 0.1	ug/L	08/04/06 08:32	08/07/06 23:46	1471280



Client Name: Sherry Laboratories

Report #: 167697

72-43-5	Methoxychlor	525.2	40 *	0.1	< 0.1	ug/L	08/04/06 08:32	08/07/06 23:46	1471280
51218-45-2	Metolachlor	525.2	---	0.1	< 0.1	ug/L	08/04/06 08:32	08/07/06 23:46	1471280
21087-64-9	Metribuzin	525.2	---	0.1	< 0.1	ug/L	08/04/06 08:32	08/07/06 23:46	1471280
1919-16-7	Propachlor	525.2	---	0.1	< 0.1	ug/L	08/04/06 08:32	08/07/06 23:46	1471280
4-9	Simazine	525.2	4 *	0.07	< 0.07	ug/L	08/04/06 08:32	08/07/06 23:46	1471280
116-06-3	Aldicarb	531.1	---	0.5	< 0.5	ug/L	08/03/06 09:30	08/05/06 01:27	1471271
1646-88-4	Aldicarb sulfone	531.1	---	0.7	< 0.7	ug/L	08/03/06 09:30	08/05/06 01:27	1471271
1646-87-3	Aldicarb sulfoxide	531.1	---	0.5	< 0.5	ug/L	08/03/06 09:30	08/05/06 01:27	1471271
63-25-2	Carbaryl	531.1	---	0.5	< 0.5	ug/L	08/03/06 09:30	08/05/06 01:27	1471271
1563-66-2	Carbofuran	531.1	40 *	0.9	< 0.9	ug/L	08/03/06 09:30	08/05/06 01:27	1471271
16655-82-6	3-Hydroxycarbofuran	531.1	---	0.5	< 0.5	ug/L	08/03/06 09:30	08/05/06 01:27	1471271
16752-77-5	Methomyl	531.1	---	0.5	< 0.5	ug/L	08/03/06 09:30	08/05/06 01:27	1471271
23135-22-0	Oxamyl	531.1	200 *	1.0	< 1.0	ug/L	08/03/06 09:30	08/05/06 01:27	1471271
1071-83-6	Glyphosate	547	700 *	6.0	< 6.0	ug/L	08/07/06 18:08	08/08/06 14:40	1471278
145-73-3	Endothall	548.1	100 *	9.0	< 9.0	ug/L	08/01/06 08:50	08/02/06 00:46	1471276
85-00-7	Diquat	549.2	20 *	0.4	< 0.4	ug/L	07/31/06 10:30	07/31/06 18:47	1471274

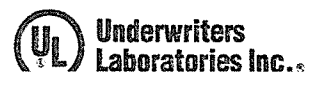
any positive Aroclor result would require analysis for total PCB as decachlorobiphenyl by method 508A (MCL = 0.5 ug/L)

Reference Lab Tests

Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	UL ID #
---	Foaming Agents (MBAS)	5540 C	0.5 *	0.1	< 0.1	mg/L	---	07/28/06 16:05	1471283

UL has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type: MCL SMCL AL  
 Symbol: \* ^ !





Underwriters Laboratories Inc.

110 S. Hill Street  
South Bend, IN 46617  
(800) 332-4345  
fax (574) 233-8207

Please print legibly.

Order #

123579

www.ehl.cc

Shaded area for lab use only

CHAIN OF CUSTODY RECORD

Page \_\_\_\_\_ of \_\_\_\_\_

REPORT TO:

Sherry

SAMPLER (Signature)

STATE (of sample origin)

PWS ID#

PROJECT NAME

PO#

BILL TO:

COMPLIANCE MONITORING

Yes No

POPULATION SERVED

SOURCE WATER

LAB Number

COLLECTION

SAMPLING SITE

TEST NAME

SAMPLE REMARKS

CHLORINATED

# OF CONTAINERS

MATRIX CODE

TURNAROUND TIME

LAB Number	DATE		TIME	RECEIVED BY (Signature)	DATE	TIME	LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT	LAB COMMENTS	DATE	TIME	CONDITIONS UPON RECEIPT (check one):	Temperature:	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
	DATE	TIME													
1	1471271	7/27	0900												
2	1471272														
3	1471273														
4	1471274														
5	1471275														
6	1471276														
7	1471277														
8	1471278														
9	1471279														
10	1471280														
11	1471281														
12	1471282														
13	1471283														
14	1471284	3/15	1315												

RELINQUISHED BY: (Signature)

DATE TIME RECEIVED BY: (Signature)

DATE TIME

LAB COMMENTS: Immediate CDC

RELINQUISHED BY: (Signature)

DATE TIME RECEIVED BY: (Signature)

DATE TIME

RELINQUISHED BY: (Signature)

DATE TIME RECEIVED FOR LABORATORY BY:

DATE TIME

CONDITIONS UPON RECEIPT (check one):

Temperature:

3.6 °C Upon Receipt

MATRIX CODES:

- DW- DRINKING WATER
- RW- REAGENT WATER
- GW- GROUND WATER
- EW- EXPOSURE WATER
- SW- SURFACE WATER
- PW- POOL WATER
- ASTE WATER

SW = Standard Written: (15 working days)

RV\* = Rush Verbal: (5 Working days)

RW\* = Rush Written: (5 working days)

IV\* = Immediate Verbal: (3 working days)

IW\* = Immediate Written: (3 working days)

SP\* = Weekend, Holiday

STAR\* = Less than 48 hours

100%\*

125%\*

CALL

CALL

\*Please call. Expedited service not available for all testing

Samples received unannounced

with less than 48 hours holding time

remaining may be subject to additional changes

Shipping

UL-SBN-SHIP-F-002-05

Effective Date:

1

**Sherry Laboratories**

629 Washington St., Suite 300  
 Columbus, Indiana 47201-  
 (812) 375-0531

**CHAIN-OF-CUSTODY RECORD**

**Subcontractor:**  
 Underwriters Laboratories  
 110 S. Hill Street  
 TEL: (800) 332-4345  
 FAX: (219) 233-8207

South Bend, Indiana 46617  
 Accl #: ISDH C-7101

27-Jul-06

Sample ID	Matrix	Collection Date	Bottle Type	COLOR	MIBINED	RADBROSS	ALPH/	Requested Tests			
								ODOR	PHOSATE_A		
C06070703-01A	Drinking Water	7/27/06 9:00:00 AM		1	1	1	1	1	1	1	
					Combined						
					Kelvin						
					Gross						
					Alma						
											See with Analyst

**Comments:** Bastin Logan

3.6°C  
 wet/blew

Relinquished by: Gail Russ  
 Relinquished by: Gail Russ  
 Date/Time: 7/27/06 10:54

Received by: Amants  
 Received by: Amants  
 Date/Time: 7/28/06 09:45

**Sherry Laboratories**

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**CHAIN-OF-CUSTODY RECORD**

PO6011043

**Subcontractor:**

Underwriters Laboratories  
110 S. Hill Street

TEL: (800) 332-4345  
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South Bend, Indiana 46617

Acct #: ISDH C-7101

27-Jul-06

Sample ID	Matrix	Collection Date	Bottle Type	MBAS	Requested Tests
C06070703-01A	Drinking Water	7/27/06 9:00:00 AM		1	

**Comments:**

Please analyze these samples as quickly as possible. After analysis, the samples do not need to be returned and can be disposed per your standard laboratory practices. Please note our Sample ID Number on your report.

Relinquished by:  
Relinquished by:

*Paul Miller*

Date/Time  
*7/26/06*

Received by:  
*Karen Bailey*

Date/Time  
*7/26/06 10:05*







## *Appendix E – Boring Locations and Analyses*

Boring Locations and Analyses  
Former AEP Tanner's Creek Generating Station

Boring No.	Location	VOC by 8260/5035	PAH by 8270 SIM	SVOC by 8270	PCBE by 8082 (0-2 FT-BGS ONLY)	Metals (Extended List)	Metals RCRA 8	RCRA 8 Metals plus Barium, Lithium, and Molybdenum	Hexachrome by 7196 (Soil Only)	Fluoride	Radium	Dioxins and Furans (0-2 ft-bgs ONLY)	Duplicate Sample	MS/MSD Sample
B-1	Gibbco / Coal Staging Area	X		X		X			X	X	X		SOIL	
B-2	Gibbco / Coal Staging Area	X		X		X			X	X	X			SOIL
B-3	Gibbco / Coal Staging Area	X		X	X	X			X	X	X			GW
B-4	Gibbco / Coal Staging Area	X		X		X			X	X	X			
B-5	Gibbco / Coal Staging Area	X		X	X	X			X	X	X	X		
B-6	Gibbco / Coal Staging Area	X		X		X			X	X	X			
B-7	Gibbco / Coal Staging Area	X		X		X			X	X	X			
B-8	Gibbco / Coal Staging Area	X		X			X						SOIL	
B-9	Diesel AST	X		X	X		X							
B-10	Diesel AST	X		X	X		X							
B-11	Diesel AST	X		X			X							
B-12	Diesel AST	X		X			X					X	SOIL	
B-13	Demo Debris Area	X		X			X							
B-14	Demo Debris Area	X		X			X					X	SOIL	
B-15	Demo Debris Area	X		X			X							
B-16	Demo Debris Area	X		X			X							
B-17	AST	X		X			X							SOIL
B-18	Demo Debris Area	X		X			X					X		
B-19	Metal Waste Cleaning AST	X		X			X							
B-20	Metal Waste Cleaning AST	X		X			X					X		
B-21	Metal Waste Cleaning AST	X		X	X		X							
B-22	Metal Waste Cleaning AST	X		X			X							
B-23	Near Bottom Ash Pond	X		X		X			X	X	X			
B-24	Near Bottom Ash Pond	X		X		X			X	X	X			
B-25	Near Bottom Ash Pond	X		X		X			X	X	X	X		
B-26	Near Bottom Ash Pond	X		X		X			X	X	X			
B-27	Main Ash Pond	X		X		X			X	X	X			
B-28	Main Ash Pond	X		X		X			X	X	X			
B-29	Main Ash Pond	X		X		X			X	X	X	X		
B-30	Main Ash Pond	X		X		X			X	X	X			
B-31	Main Ash Pond	X		X		X			X	X	X	X		
B-32	Main Ash Pond	X		X		X			X	X	X			
B-33	Main Ash Pond	X		X		X			X	X	X			
B-34	Main Ash Pond	X		X	X	X			X	X	X		SOIL	
B-35	Main Ash Pond	X		X	X	X			X	X	X			SOIL
B-36	Main Ash Pond	X		X		X			X	X	X			
B-37	Main Ash Pond	X		X		X			X	X	X	X		
B-38	Main Ash Pond	X		X	X	X			X	X	X		GW	
B-39	Fly Ash Pond	X	X					X						SOIL
B/TMW-40	Fly Ash Pond	X	X					X						
Wastewater	Ash Pond/Landfill Outfall	X		X	X	X				X	X			
B-41	Fly Ash Pond	X	X					X						
B-42	Fly Ash Pond	X	X					X						
B/TMW-43	Fly Ash Pond	X	X					X						
B-44	Fly Ash Pond	X	X					X						
B/TMW-45	Fly Ash Pond	X	X					X						
B-46	Fly Ash Pond	X	X					X						
B/TMW-47	Fly Ash Pond	X	X					X						
B-48	Fly Ash Pond	X	X					X					SOIL	
B-49	Ash Landfill	X	X					X						
B/TMW-50	Ash Landfill	X	X					X						
B-51	Ash Landfill	X	X					X						
B/TMW-52	Ash Landfill	X	X					X						
B-53	Northeast of Fly Ash Pond	X	X					X						
B-54	Northeast of Fly Ash Pond	X	X					X						
B/TMW-55	Northeast of Fly Ash Pond	X	X					X						
B-/TMW56	Northeast of Fly Ash Pond	X	X					X						
B/TMW-57	Northeast of Fly Ash Pond	X	X					X						
B-58	Northeast of Fly Ash Pond	X	X					X					SOIL	
B/TMW-59	Northeast of Fly Ash Pond	X	X					X						
B-60	Main Plant Building Area	X	X					X						
B-61	Main Plant Building Area	X	X					X						
B-62	Main Plant Building Area	X	X					X						
B/TMW-63	Main Plant Building Area	X	X		X			X					SOIL	
B-64	Main Plant Building Area	X	X		X			X						
B-65	Near Coal Pond NE of Plant Buidling Area	X	X		X			X						SOIL
B/TMW-66	Near Coal Pond NE of Plant Buidling Area	X	X		X			X					SOIL	
B/TMW-67	Main Plant Building Area	X	X		X			X					GW	
B-68	Near Coal Pond NE of Plant Buidling Area	X	X		X			X						

B-69	Near Coal Pond NE of Plant Buidling Area	X	X		X		X							
B-70	Near Coal Pond NE of Plant Buidling Area	X	X		X		X						SOIL	
B/TMW-71	Main Plant Building Area	X	X		X		X							SOIL
B/TMW-72	Main Plant Building Area	X	X		X		X							
B-73	Main Plant Building Area	X	X		X		X							
B/TMW-74	Main Plant Building Area	X	X		X		X							
B-75	Main Plant Building Area	X	X		X		X							
B-76	Fly Ash Pond						X							
B-77	Fly Ash Pond						X							
B-78	Fly Ash Pond						X							
B-79	Main Plant Building Area	X	X		X		X							
B-80	Main Plant Building Area	X	X		X		X							
B-81	Main Plant Building Area	X	X		X		X						GW	
B-82	Main Plant Building Area	X	X		X		X						SOIL	
B-83	Main Plant Building Area	X	X		X		X							GW
B-84	Main Plant Building Area	X	X		X		X							
B-85	Main Plant Building Area	X	X		X		X							
B-86	Main Plant Building Area	X	X		X		X							SOIL
B-87	Main Plant Building Area	X	X		X		X							
B-88	Main Plant Building Area	X	X		X		X							

Dioxins and Furans for soils only

GW Well   42 total

Due to laboratory maximum detection limits exceeding IDEM RCG Screening Levels for water analysis, Hexachromium (Cr<sup>6+</sup>) will not be measured in the groundwater