

Alliance 51<sup>st</sup> Street LLC

## **REMEDIAL ACTION PLAN**

### **PENNSYLVANIA'S STORAGE TANK AND SPILL PREVENTION ACT**

Former 51<sup>st</sup> Street Terminal  
1630-1646 South 51<sup>st</sup> Street  
Philadelphia, Pennsylvania  
Facility ID: 51-10420  
Incident No. 56662

November 2023

A large, solid orange geometric shape, resembling a stylized triangle or a section of a larger triangle, is positioned in the bottom right corner of the page. It has a diagonal line running from the bottom left towards the top right, and a horizontal line near the bottom, creating a sense of depth and structure.

## REMEDIAL ACTION PLAN

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*By affixing my seal to this document, I am certifying that to the best of my knowledge the information is true and correct. I further certify that I am licensed to practice in the Commonwealth of Pennsylvania and that it is within my professional expertise to verify the correctness of the information.*

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Facility ID: 51-10420  
Incident No. 56662

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## ACRONYMS AND ABBREVIATIONS

Alliance	Alliance 51 <sup>st</sup> Street LLC
Arcadis	Arcadis U.S., Inc.
AST	aboveground storage tank
AUL	activity and use limitation
bgs	below ground surface
COC	constituent of concern
EC	Environmental Covenant
ID	identification number
MMP	Materials Management Plan
MSC	Medium-Specific Concentration
PADEP	Pennsylvania Department of Environmental Protection
PID	photoionization detector
RACR	Remedial Action Completion Report
RAP	Remedial Action Plan
RSCR	Revised Site Characterization Report
SCR	Site Characterization Report
SHS	Statewide Health Standards
Site	Former 51 <sup>st</sup> Terminal, Facility ID: 51-10420, 1630-1646 South 51 <sup>st</sup> Street, Philadelphia, Pennsylvania
SV	screening value
VI	vapor intrusion

# 1 INTRODUCTION

Arcadis U.S., Inc. (Arcadis), on behalf of the current property owner, Alliance 51<sup>st</sup> Street LLC (Alliance), is submitting this Remedial Action Plan (RAP) for Incident No. 56662, which is associated with the former aboveground storage tanks (ASTs) located at 1630-1646 South 51<sup>st</sup> Street in Philadelphia, Pennsylvania (Site – see **Figure 1**). This RAP presents Alliance's remediation approach at the Site in conformance with Chapters 245 and 250 of Title 25 of the Pennsylvania Code, which relate to the administration of Pennsylvania's Storage Tank and Spill Prevention Act and Pennsylvania's Land Recycling Program (Act 2), respectively, and Pennsylvania Department of Environmental Protection (PADEP) guidance.

A Revised Site Characterization Report (RSCR) was submitted to PADEP for the Site on June 27, 2023 (Alliance 2023), and subsequently approved by PADEP on September 27, 2023 (PADEP 2023b). As discussed in the RSCR, the Site entered the Act 2 Program on February 14, 2022. Although site investigation activities have been performed to address both the AST and Act 2 cases, this RAP is being submitted to close the AST case, as discussed with PADEP, and focuses on the analytical parameters and investigation activities associated with the former ASTs and the petroleum products that were stored in the tanks.

As reviewed with PADEP, with the exception of tanks TK-7550 and TK-7551 (PADEP IDs 050A and 051A), the tanks at the Site stored fuel oil No. 2. Tanks TK-7550 and TK-7551 stored gasoline, diesel fuel and fuel oil No. 2. Because gasoline was stored in tanks TK-7550 and TK-7551 as early as 1972, it was assumed that both leaded and unleaded gasoline were stored in the tanks. As such, only the soil and groundwater in the vicinity of these tanks were evaluated for lead as part of the RSCR. The lead in the soil and groundwater in the other areas of the Site, as well as the other analytical parameters not associated with the former ASTs, will be included in the Act 2 report.

The constituents of concern (COCs) in the soil and groundwater at concentrations above the applicable PADEP Statewide Health Standards (SHS; PADEP 2021) Medium-Specific Concentrations (MSCs) will be addressed with an Environmental Covenant (EC). For efficiency purposes, the EC for the AST case will include the site-wide soil and groundwater COCs exceeding MSCs associated with the Act 2 investigation as well; therefore, one EC will satisfy both programs.

## 1.1 Site Description

The Site is located at 1630 South 51<sup>st</sup> Street in Philadelphia, Pennsylvania. The Site, including the area where the ASTs were located, occupies an approximately 12-acre parcel located south of 51<sup>st</sup> Street in an industrial/commercial section of Philadelphia. An approximately 0.8-acre parcel located to the north of South 51<sup>st</sup> Street, which is also owned by Alliance, was previously used for dock access and contained aboveground piping that transported petroleum products from the docks to the Site.

Currently there are approximately 2,100 square feet of improvements onsite: an approximately 1,000-square-foot garage/electrical building, an approximately 750-square-foot guard house, and an approximately 350-square-foot miscellaneous structure. An oil-water separator system and the canopy of the former tank truck loading area also are present onsite. The remainder of the Site consists of gravel areas where the former ASTs were located.

It appears that the 500-year floodplain encroaches slightly onto the northeastern and eastern portions of the Site (Environmental Data Resources Inc. [EDR] 2021). The eastern portion of the small parcel to the north of the Site also appears to be within the 500-year floodplain. The Schuylkill River is located approximately 100 feet to the east of the northeastern portion of the Site. The small parcel to the north of the Site borders the Schuylkill River. The topography of the Site slopes toward the river, with elevations ranging from approximately 29 feet to 12 feet above mean sea level.

There are currently eight monitoring wells (MW-1 through MW-5 and MW-7 through MW-9) located onsite. A site map showing property boundaries, pertinent current site features, and investigation sampling locations is included as **Figure 2**.

### 1.2 Surrounding Area

The Site is in an industrial/commercial section of Philadelphia. The Site is bordered:

- To the north by South 51<sup>st</sup> Street, beyond which is an abandoned industrial property;
- To the south by railroad tracks, beyond which is Bartram's Garden, a public park;
- To the east by South 51<sup>st</sup> Street, beyond which is the Schuylkill River; and
- To the west by railroad tracks, beyond which is an Industrial Food Truck, LLC corporate office.

The surrounding properties and land use are depicted on **Figure 1**.

### 1.3 Soil and Geology

Based on EDR's search of U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) files (EDR 2021), the predominant soil type in the area of the Site is Urban Land. This soil type has variable draining and hydrologic properties. Soil boring logs completed by Arcadis during the investigation indicate the surficial geology to be light brown silty sand with mica clasts.

According to the Pennsylvania Geological Survey, the formation underlying the Site is the Wissahickon Formation, which is composed of a medium-grained to coarse-grained foliated crystalline rock ranging in texture from gneiss to schist. In the Delaware Valley, the Wissahickon Formation is typically a medium to coarse-grained metamorphic rock characterized by abundant mica. It includes schistose beds in which mica is the predominant material, as well as other beds in which the rock has a gneissic character, with quartz, feldspar, and mica being the dominant minerals.

The Wissahickon Formation is varied in composition and degrees of metamorphism and dates to the Paleozoic Era. Structurally, it is frequently folded and commonly fractured by numerous joints. Its total thickness has been estimated to be between 5,000 and 8,000 feet. Competent bedrock of the Wissahickon Formation was not encountered during the investigation activities.

### 1.4 Hydrogeology

Based on the investigation activities completed at the Site, groundwater is encountered in the overburden at depths between 3 and 13 feet below ground surface (bgs). Groundwater flow is to the northeast, toward the Schuylkill River. This stretch of the Schuylkill River is in the tidal zone, where there is a tidal swing of approximately 6 feet.

## 1.5 Site Investigation and Remediation History

The operations of the former ASTs and piping systems are believed to be the source of the petroleum related COCs identified in soil and groundwater at the Site. Soil characterization activities were conducted in 2021, 2022, and 2023. Quarterly groundwater monitoring was initiated in 2022 as part of the Act 2 case and is ongoing, with the most recent event conducted during the fourth quarter of 2023. Historical and recent characterization and remedial activities are summarized here. Additional details of historical activities can be found in the RSCR (Alliance 2023).

Pertinent activities that have been conducted to date at the Site include:

- During August and September 2021, PBF Logistics closed the ASTs on the Site with notice to PADEP (PBF Logistics 2021a). As part of the closure activities, PBF Logistics removed the liquids and sludge from the tanks and lines and collected AST closure confirmatory soil samples. All ASTs and lines were removed from the Site.
- On August 17, 2021, PBF Logistics notified the PADEP of a release of an unknown quantity of petroleum (PBF Logistics 2021b). Soil containing COCs from the release was subsequently excavated.
- In October 2021, Arcadis (on behalf of Alliance) conducted a Phase II environmental investigation as part of a potential acquisition of the Site. Soil borings were installed and sampled in the former tank containment areas. Existing monitoring wells (MW-1 through MW-4) were sampled. In addition, five temporary wells were installed and sampled (Alliance 2023).
- On December 15, 2021, PBF Logistics submitted an AST Closure Report to PADEP (PBF Logistics 2021c).
- In December 2021, Alliance purchased the Site from PBF Logistics.
- On February 9, 2022, Alliance submitted a Notice of Intent to Remediate under the Act 2 Program to obtain a release of liability for the COCs identified onsite associated with the previous operations of the ASTs and potentially other COCs (Alliance 2022a).
- In March 2022, Arcadis installed 17 soil borings in and around Tank Containment Area 1. Additionally, three monitoring wells (MW-7 through MW-9) were installed to delineate COCs in groundwater.
- In April 2022, Arcadis began a quarterly groundwater sampling program at the Site. Sampling events have been completed in July 2022, October 2022, January 2023, April 2023, July 2023, and October 2023. The groundwater samples have been analyzed for volatile organic compounds and dissolved lead.
- On May 25, 2022, Arcadis collected seven soil gas samples from the Site at the locations of borings that had elevated photoionization detector (PID) readings during soil investigation activities.
- On June 8, 2022, PADEP issued a Notice of Violation (NOV) because Alliance had not yet submitted a site characterization report (SCR; PADEP 2022a).

- On November 3, 2022, Arcadis (on behalf of Alliance) submitted an SCR in response to the NOV to fulfill PADEP requirements (Alliance 2022b). On February 2, 2023, PADEP issued a letter disapproving the November 2022 SCR. A copy of the PADEP letter is provided in **Appendix A**.
- In March 2023, Arcadis advanced 19 soil borings to delineate the extent of COCs in soil at the Site for both the AST and Act 2 cases. The analysis for each boring correlated to the COCs that would potentially be in the soil in that area.
- On June 27, 2023, Arcadis (on behalf of Alliance) submitted the RSCR to PADEP (Alliance 2023).
- PADEP approved the RSCR on September 27, 2023 (PADEP 2023b). This RAP was prepared and is being submitted in response to the approved RSCR. A copy of the PADEP letter is provided in **Appendix A**

## 1.6 Summary of Areas and Constituents

As described in the RSCR (Alliance 2023), the ASTs have been separated into three tank containment areas for the purposes of summarizing and reviewing the data. COCs for each area are dictated by the historical contents of the tanks in each containment area. The tank containment areas and investigation sampling locations are illustrated on **Figure 2**.

### 1.6.1 Tank Containment Area 1

Tank Containment Area 1 formerly included tanks TK-7750 and TK-7551 (PADEP identification numbers [IDs] 050A and 051A, respectively). These tanks historically stored gasoline (assumed to be both leaded and unleaded based on the age of tanks), diesel fuel, and fuel oil No. 2. Sampling requirements in this containment area included the following from the PADEP Short List for Petroleum Products: Leaded Gasoline, Unleaded Gasoline, Diesel Fuel, and Fuel Oil No. 2.

### 1.6.2 Tank Containment Area 2

Tank Containment Area 2 formerly included tanks TK-649, TK-1043, and TK-1044 (PADEP IDs 049A, 042A, and 044A, respectively). These tanks historically stored fuel oil no. 2. Sampling requirements in this containment area included fuel oil No. 2 from the PADEP Short list for Petroleum Products 2.

### 1.6.3 Tank Containment Area 3

Tank Containment Area 3 formerly included tanks TK-941, TK-1248, TK-2040, TK-2045 and TK-4847 (PADEP IDs 041A, 048A, 040A, 045A, and 047A, respectively). These tanks historically stored fuel oil no. 2. Sampling requirements in this containment area included fuel oil No. 2 from the PADEP Short list for Petroleum Products.

## 2 NATURE AND EXTENT OF CONSTITUENTS OF CONCERN

The nature and extent of COCs at the Site are discussed in the following subsections through the comparison of sample results to PADEP SHS MSCs. Sample results were also compared to vapor intrusion (VI) screening values (SVs).

### 2.1 Soil

Soil samples were collected during the AST closure activities performed by Stantec Consulting, Inc. in 2021. Arcadis collected additional delineation soil samples in 2021, 2022, and 2023.

#### 2.1.1 Tank Containment Area 1

Naphthalene was detected in soil at a concentration greater than the PADEP Non-Residential Direct Contact MSC (2-15 feet) and Non-Residential VI SV in SB-213 at a depth of 4 to 4.5 feet bgs. In soil from boring SB-215, naphthalene exceeded the Non-Residential Soil-to-Groundwater MSC and Non-Residential VI SV at a depth of 4.5 to 5 feet bgs.

Lead was detected in soil at a concentration greater than the PADEP Non-Residential Soil-to-Groundwater MSC in borings 7660-P1, Pipe 70, Pipe 81, Pipe 86, and Pipe 87 at depths ranging from 1 to 2 feet bgs.

Benzene was detected in soil at a concentration greater than the PADEP Non-Residential Soil-to-Groundwater MSC and Non-Residential VI SV in borings 7551-P6, UNK-ST-N, Pipe 29, SB-105 (4-4.5) and SB-213 (4-4.5) at depths ranging from 2 to 4.5 feet bgs. In borings SB-207 and SB-216, benzene was detected at a concentration greater than the Non-Residential VI SV at depths ranging from 3.5 to 4.5 feet bgs. As part of the Act 2 case, benzene exceeded both the Non-Residential Soil-to-Groundwater MSC and Non-Residential VI SV in soil from borings SB-202, SB-204, and SB-217 at depths ranging from 8.5 to 9 feet bgs. The concentration of benzene in soil from boring SB-203 also exceeded the Non-Residential VI SV.

Bis(2-chloroethyl)ether and biphenyl associated with the Act 2 case were detected in soil at concentrations greater than their respective PADEP Non-Residential Soil-to-Groundwater MSC and Non-Residential VI SV in boring SB-103 at a depth of 4.5 to 5 feet bgs.

The COCs in the other soil samples were less than their respective PADEP Non-Residential Direct Contact MSCs, Soil-to-Groundwater MSCs, and VI SVs.

The COC concentrations in soil that exceed criteria are summarized in **Table 1**, and the sampling locations are presented on **Figure 2**.

Exposure pathways and engineering and institutional controls related to soil are discussed in Section 3 and Section 4, respectively.

### 2.1.2 Tank Containment Area 2

The concentrations of COCs in the soil samples collected from Tank Containment Area 2 as part of the AST case were less than their respective PADEP Non-Residential Direct Contact MSCs, Soil-to-Groundwater MSCs, and VI SVs.

As part of the Act case, lead was detected at a concentration greater than the PADEP Non-Residential Direct Contact MSC (0-2 feet) in soil from boring 1044-P4 at a depth of 3 feet. In soil from borings 1043-P2, 1043-P4, 1043-P5, 1044-P3, 1044-Center, Pipe 46, Pipe 51, Pipe 55, Pipe 61, and SB-305, lead was detected at a concentration greater than the Non-Residential Soil-to-Groundwater MSC at depths ranging from 2 to 3 feet bgs.

The COC concentrations in soil that exceed criteria are summarized in **Table 1**, and the sampling locations are presented on **Figure 2**.

Exposure pathways and engineering and institutional controls related to soil are discussed in Section 3 and Section 4, respectively.

### 2.1.3 Tank Containment Area 3

Benzene was detected in soil at a concentration greater than the PADEP Non-Residential Soil-to-Groundwater MSC in boring Pipe 29 at a depth of 3 feet bgs.

As part of the Act 2 case, lead was detected in soil at a concentration greater than the PADEP Non-Residential Direct Contact MSC (0-2 feet) and Non-Residential Soil-to-Groundwater MSC in boring Pipe 22 at depths of 3 and 13.5 feet bgs. Additionally, lead was detected in soil at a concentration greater than the Non-Residential Soil-to-Groundwater MSC in borings 941-P3, 941-Center, and Pipe 33 at a depth of 3 feet bgs.

The COCs concentrations in the other soil samples were less than their respective PADEP Non-Residential Direct Contact MSCs, Soil-to-Groundwater MSCs, and VI SVs.

The COC concentrations in soil that exceed criteria are summarized in **Table 1**, and the sampling locations are presented on **Figure 2**.

Exposure pathways and engineering and institutional controls related to soil are discussed in Section 3 and Section 4, respectively.

## 2.2 Groundwater

Quarterly groundwater monitoring began in April 2022 for the Site monitoring wells. Benzene was detected in groundwater from one well, MW-7, located in Tank Containment Area 1 at concentrations greater than the PADEP Non-Residential Used Aquifer Groundwater MSC in each of the sampling events. Benzene concentrations have remained relatively stable throughout the monitoring program. The concentrations in groundwater from downgradient monitoring wells MW-1 and MW-2 have been less than the Non-Residential Used Aquifer Groundwater MSC.

Naphthalene was detected in groundwater from one well, MW-9, located in Tank Containment Area 3 at a concentration greater than the PADEP Non-Residential Used Aquifer Groundwater MSC during the initial

sampling event. The concentrations of COCs in groundwater in the subsequent events have been less than the Non-Residential Used Aquifer Groundwater MSC.

As part of the Act 2 case, lead was detected in groundwater in MW-9 at concentrations greater than the PADEP Non-Residential Used Aquifer Groundwater MSC in each of the sampling events. Lead concentrations have remained relatively stable throughout the monitoring program. The concentrations of lead in groundwater from downgradient monitoring well MW-4 have been less than the Non-Residential Used Aquifer Groundwater MSC. The lead concentrations in the groundwater are not related to the AST case and are being addressed as part of the Act 2 case.

No COCs concentrations exceeded their respective groundwater VI SVs in the quarterly events.

As discussed in Section 1.4, groundwater occurs in the overburden at depths between 3 and 13 feet bgs. Groundwater flow has been consistently to the northeast, toward the Schuylkill River.

Exposure pathways and controls related to groundwater are discussed in Section 3 and Section 4, respectively.

### 2.3 Soil Vapor

Soil vapor sampling was conducted in May 2022 at seven locations, SG-1 through SG-7. The locations were selected based on elevated PID readings identified in former soil borings located in the footprint of the proposed building. Soil vapor samples were not collected through a slab and therefore, were considered near-slab/near-source samples. The depth of each sample corresponded to the depth of the highest PID reading in the former boring with depths ranging from 2.5 feet to 9 feet bgs. No COCs in soil vapor were detected or exceeded the PADEP Non-Residential Near-Source Soil Gas VI SVs. The soil vapor sample results were also compared to the PADEP Non-Residential Sub-Slab Soil Gas VI SVs to assist in identifying issues with the potential to arise during proposed redevelopment of the Site. Benzene was detected in a soil vapor sample from SG-5 at a concentration exceeding the SV. The VI exposure pathway is discussed further in Section 3.

### 3 EXPOSURE EVALUATION

The Site is in a commercial/industrial area of Philadelphia. It currently is vacant and contains a garage/electrical building, guard house, and a miscellaneous structure. Additionally, an oil-water separator and the canopy of the former tank truck loading area are present. The former AST locations and containment areas are gravel covered. Currently, planned redevelopment of the Site include removing the existing structures, grading surfaces, and constructing a warehouse.

The following sections present the exposure pathway evaluation by environmental media.

#### 3.1 Surface Soil

Currently, the Site consists of gravel areas where the former AST locations and containment areas were located and a paved area in the northwest portion of the Site, where the former fuel truck loading rack and guard house are located. An oil-water separator also is located in a gravel area in the northeast portion of the Site. During the AST closure sampling event, various samples were collected at 2 feet bgs. No COCs associated with the AST case were detected in soil at concentrations greater than the Non-Residential Direct Contact MSCs (0-2 feet). Lead was detected in soil as part of the Act 2 case at three locations, 1044-P4, 2040-P2, and Pipe 22, at concentrations greater than the Non-Residential Direct Contact MSCs (0-2 feet) (**Table 1**). Sampling locations 2040-P2 and Pipe 22 are located within Tank Containment Area 3. Sampling location 1044-P4 is located within Tank Containment Area 2.

As discussed in Sections 4 and 5, the current redevelopment plans are to redevelop the Site as a warehouse distribution facility and to use an EC with engineering controls to address COC concentrations in soil that exceed criteria. As part of the redevelopment, the soil onsite will be graded and relocated address the elevation differences across the Site (**Figure 3** and **Figure 4**). The plans are to excavate the soil at sampling locations 2040-P2 and Pipe 22 and relocate the soil under the proposed warehouse building. The soil at sampling location 1044-P4 currently is located beneath the proposed building. Following the redevelopment of the Site, the soil with COC concentrations greater than the Non-Residential MSCs will be located beneath the building slab and/or the surrounding concrete pavement, asphalt pavement, and landscaped areas. Based on the current redevelopment plans, this potential exposure pathway is considered incomplete because the maintenance requirement for the engineering controls will be memorialized in the future EC for the Site, as discussed in Section 4.

#### 3.2 Subsurface Soil

The operations of the former ASTs and piping systems are believed to be the source of the petroleum related COCs identified in the subsurface soil at the Site. Potential exposure pathways for COCs related to subsurface soils include direct contact, soil COCs leaching to groundwater, and VI into buildings.

##### 3.2.1 Direct Contact

Subsurface soil samples collected indicated that only naphthalene concentrations exceeded the PADEP Non-Residential Direct Contact MSC (2-15 feet) in boring SB-213 located in Tank Containment Area 1. No other COC exceeded its respective soil MSC.

The area of boring SB-213 is proposed to be redeveloped beneath concrete pavement (**Figure 2**). In addition, this area will be subject to institutional controls as described in Section 4. Considering the redevelopment plans, this potential exposure pathway is considered incomplete because the maintenance requirement for the engineering controls will be memorialized in the future EC for the Site, as discussed in Section 4.

### 3.2.2 Soil to Groundwater

Benzene was detected in soil in the Tank Containment Areas 1 and 3 at concentrations greater than the PADEP Non-Residential Soil-to-Groundwater MSC (**Table 1**). Naphthalene and lead also were detected in soil in Tank Containment Area 1 at concentrations greater than the Non-Residential Soil-to-Groundwater MSCs (**Table 1**). In addition, as part of the Act 2 case, lead was detected in soil in Tank Containment Areas 2 and 3 at concentrations greater than the Non-Residential Soil-to-Groundwater MSCs (**Table 1**). Also, as part of the Act 2 case, bis(2-chloroethyl)ether and biphenyl were detected in soil at concentrations greater than the Non-Residential Soil-to-Groundwater MSCs in Tank Containment Area 1.

Following the proposed grading and redevelopment of the Site, the soil with COC concentrations greater than the PADEP Non-Residential Soil-to-Groundwater MSCs are or will be located beneath impervious surfaces including concrete and/or asphalt pavement. Based on the proposed redevelopment plans, this potential exposure pathway is considered incomplete because the maintenance requirement for the engineering controls will be memorialized in the future EC for the Site, as discussed in Section 4.

### 3.2.3 Vapor Intrusion from Soil

As an initial screening of potential vapors emanating from subsurface soils, COC concentrations in soil samples were compared to the current PADEP Non-Residential VI SVs. Concentrations of benzene and naphthalene exceeded the SV in soil at various borings located within Tank Containment Area 1 (**Table 1**). The sample depths ranged from 4 to 9 feet bgs in these borings.

Based on the proposed grading and redevelopment of the Site, the soil with COC concentrations greater than the PADEP VI SVs will be located beneath the building slab and/or the surrounding concrete pavement, asphalt pavement, and landscaped areas. As part of the warehouse construction, a passive sub-slab depressurization system also will be installed as a proactive VI mitigation measure to address soil beneath the building with concentrations greater than the VI SVs. After construction is complete, confirmatory sub-slab soil gas and indoor air sampling will be conducted to verify that no VI is occurring.

## 3.3 Groundwater

Exposure pathways related to groundwater are evaluated in the following subsections.

### 3.3.1 Direct Contact

Benzene concentrations have exceeded the PADEP Non-Residential Used Aquifer MSC in groundwater from one well, MW-7, located in Tank Containment Area 1. Benzene concentrations in groundwater have remained relatively stable throughout the quarterly monitoring program. The concentrations of benzene in

groundwater from downgradient monitoring wells MW-1 and MW-2 have been less than the Non-Residential Used Aquifer Groundwater MSC.

As part of the Act 2 case, lead has been detected in groundwater from MW-9 at concentrations greater than the PADEP Non-Residential Used Aquifer Groundwater MSC in each of the sampling events. Lead concentrations in groundwater have remained relatively stable throughout the monitoring program. The concentrations of lead in groundwater from in downgradient monitoring well MW-4 have been less than the Non-Residential Used Aquifer Groundwater MSC. The lead concentrations in the groundwater are not related to the AST case and are being addressed as part of the Act 2 case.

### 3.3.2 Well Survey

As previously discussed in the RSCR that was submitted in June 2023 (Alliance 2023), the Site and surrounding areas are supplied with water from the Philadelphia Water Department. Arcadis performed a 1-mile radius well search in February 2023 (**Appendix B**) using the state data base maintained by the Pennsylvania Groundwater Information System. According to the well search, 130 monitoring wells, 16 wells with no use provided, three observation wells, two test wells, and 72 withdrawal wells were reported within 1 mile of the Site. Additionally, 58 abandoned wells, 39 destroyed wells, and 11 unused wells were reported within the 1-mile radius. Within a 0.5-mile radius of the Site, several monitoring wells, test wells, abandoned wells, unused wells, and destroyed wells were reported. In addition, three withdrawal wells were identified, but these were located on the opposite side of the Schuylkill River. No hydraulically downgradient domestic potable supply wells were identified within 0.5 miles of the Site.

Based on the groundwater investigation results, and as delineated by the downgradient monitoring wells on the Site boundary, the petroleum related COCs associated with the ASTs are limited to the Site. As such and based on the location of the wells as presented in the well search results, the migration of COCs in groundwater to a potable source is not expected.

The concentrations of both benzene and lead in groundwater are less than the PADEP Non-Residential Non-Use Aquifer Groundwater MSCs. The depth to groundwater at the Site currently ranges from approximately 3.5 to 12 feet bgs. Site topography varies in elevation due to the nature of the former AST containment areas. During the proposed redevelopment activities, existing onsite soil is planned to be graded (cut and filled) to achieve the required final grade. In areas where the current depth to groundwater is shallow (3.5 feet bgs), it is planned that approximately 8.5 feet of fill will be added, so the depth to groundwater following redevelopment will be approximately 12 ft bgs. A figure depicting the proposed cut and fill activities is provided as **Figure 3**.

During redevelopment, construction workers will follow the soil and groundwater management plans prepared for the Site. Following Site redevelopment, it is not expected that future construction workers will excavate to the depth required to encounter the water table. In addition, an EC with an activity use limitation will be prepared to address the groundwater COCs concentrations above criteria. The EC will contain a Materials Management Plan (MMP) that will be followed for future intrusive work as discussed in Section 4. Therefore, a potential exposure pathway for a future worker is not considered complete, and further evaluation is not required.

### 3.3.3 Vapor Intrusion from Groundwater

As discussed, the Site will be used for commercial purposes following redevelopment and will remain as such pursuant to the forthcoming EC. As part of an initial screening of potential vapors emanating from groundwater, groundwater samples were compared to the current PADEP Non-Residential VI SVs. The results of analysis of groundwater samples collected at the Site show that COC concentrations do not exceed the PADEP Non-Residential PADEP VI SVs. In addition, a passive sub-slab depressurization system will be installed as a proactive vapor intrusion mitigation measure to address soil beneath the building with COC concentrations greater than VI SVs. As such, the groundwater VI pathway is considered incomplete, and no additional evaluation is required.

### 3.4 Soil Vapor

During the proposed redevelopment activities, subgrade infrastructure that has the potential to serve as a preferential pathway beneath the surface will be constructed. The near-source soil vapor samples previously collected below the proposed building footprint are expected to accurately represent the possible conditions.

No COCs were detected or exceeded the PADEP Non-Residential Near-Source Soil Gas VI SVs in the samples collected. The COC concentrations in samples were also compared to the PADEP Non-Residential Sub-Slab Soil Gas VI SVs to assist in identifying potential issues during the proposed redevelopment of the Site. Only benzene was detected in soil vapor in one location, SG-5, at a concentration exceeding the Non-Residential Sub-Slab Soil Gas VI SV.

Sampling location SG-5 is in an area that is proposed to receive fill to bring the final grade up to the required elevation. In addition, as part of the warehouse construction, a passive sub-slab depressurization system will be installed as a proactive VI mitigation measure to address soil beneath the building with concentrations above the VI SVs. After construction is complete, confirmatory sub-slab soil gas and indoor air sampling will be conducted to verify that no vapor intrusion is occurring.

### 3.5 Surface Water

The closest surface-water body is the Schuylkill River, which is located east of the Site. Groundwater flows to the northeast, toward the Schuylkill River. In the furthest onsite downgradient well, MW-1, the groundwater contains no COCs that exceed the MSCs, confirming that there are no groundwater COCs migrating to the river. Therefore, the surface-water pathway is considered incomplete.

### 3.6 Ecological Receptors

Potential ecological receptors are evaluated below.

#### 3.6.1 Wetlands Inventory

Arcadis conducted an evaluation of wetlands in the area via the National Wetlands Inventory (NWI) wetlands mapping tool provided by the U.S. Fish & Wildlife Service (USFWS). NWI maps are used as a guide, along with other data, to indicate the potential presence of wetlands. The NWI data indicated that

no wetland or riverine features are located within the site boundary. The Schuylkill River, an NWI wetland/riverine feature classified as R1UBV, is adjacent to the Site. The Site is roughly 3.5 miles from where the Schuylkill River empties into the Delaware River. An NWI feature map is provided in **Appendix C**.

### **3.6.2 Pennsylvania Natural Diversity Inventory**

Bohler Engineering generated a Pennsylvania Natural Diversity Inventory (PNDI) survey for the Site and surrounding area in June 2022 as part of the permitting for the redevelopment of the Site. Survey responses from the Pennsylvania Game Commission and U.S. Fish and Wildlife Service indicated that there were no known adverse effects. The initial responses from both the Pennsylvania Department of Conservation and Natural Resources (PADCNR) and Pennsylvania Fish and Boat Commission agencies indicated there was a potential adverse effect and further review was required. Following their subsequent reviews, the agencies confirmed that no adverse effects are anticipated within the project area. The PNDI survey and Pennsylvania Department of Conservation and Natural Resources and Pennsylvania Fish & Boat Commission clearance letters are provided in **Appendix D**.

## 4 REMEDIAL ACTION PLAN

The current remediation plans are to address the COC concentrations in soil that exceed the PADEP Non-Residential Direct Contact and Soil-to-Groundwater MSCs using an EC and engineering controls. The majority of the exceedances are associated with the Soil-to-Groundwater MSCs. The COCs in soil that exceed the Non-Residential Direct Contact MSCs include lead and naphthalene. The COCs that exceed the Non-Residential Soil-to-Groundwater MSCs include lead (AST and Act 2 cases), benzene, naphthalene, bis(2-chloroethyl)ether (Act 2 case), and biphenyl (Act 2 case). The extent of the COCs in soil has been delineated during the course of the AST Closure and Act 2 investigation activities. The sampling locations with the COCs in soil that exceed their respective MSCs and the corresponding delineation sample locations are illustrated on **Figure 2**.

An EC is also planned to address COCs in groundwater at concentrations above the PADEP Non-Residential MSCs. The COCs exceeding criteria are limited to benzene in monitoring well MW-7 and lead (Act 2 case) in monitoring well MW-9. The benzene concentrations in monitoring well MW-7 have been delineated sampling groundwater from downgradient monitoring wells, and the extent of the lead concentrations above criteria have been delineated through groundwater sampling and modeling. The locations of the monitoring wells are illustrated on **Figure 2**.

The current plans are to redevelop the Site as a warehouse distribution facility. As part of the redevelopment, onsite soil will be graded and relocated to address the elevation differences across the Site and eliminate the need for offsite disposal. Based on the current elevations at the Site, the soil in the southwestern portion of the Site must be excavated and moved to the central and northeastern portions of the Site to achieve a cut and fill soil balance at the Site. The areas of cut and fill are illustrated on **Figure 3**.

As indicated on **Figure 2**, the concern for soil in the southwestern portion of the Site (Tank Containment Areas 2 and 3) is primarily associated with lead (Act 2 case). Lead is present in soil in two locations (Pipe 22 and 2040-P2) at concentrations above the PADEP Non-Residential Direct Contact MSC (0-2 feet). At the other locations, the lead concentrations in soil are above the PADEP Non-Residential Soil-to-Groundwater MSC. Benzene is also present in soil at one location (Pipe-29) in Tank Containment Area 3 at a concentration greater than the Non-Residential Soil-to-Groundwater MSC. The current plans are to excavate the soil from the southwestern portion of the Site and relocate it as follows:

- Underneath the proposed warehouse building, where other soil contains lead and benzene;
- Underneath the proposed warehouse building, where there are no COCs in soil with concentrations above criteria; and
- Areas where there are COCs in soil but no COCs present in groundwater.

The excavation of the soil or cuts will be only as deep as necessary to achieve the final grades on the Site. The planned movement of the soil is illustrated on **Figure 4**.

Following the movement of the soil, the redevelopment of the Site will include construction of the building with a concrete slab and concrete and asphalt pavement around the building. These will act as engineering controls with regard to direct contact and mitigate COCs leaching to the groundwater. As a final redeveloped condition, soil containing COC concentrations above MSCs will be beneath building or

paved areas. The proposed redevelopment plan and engineering controls are illustrated on **Figure 5**. In addition, as part of building construction, a passive sub-slab depressurization system will be installed as a proactive VI mitigation measure to address the soil beneath the building with COC concentrations greater than the VI SVs.

The proposed post-remedial care plan is discussed in Section 4.1.

### 4.1 Proposed Post-Remedial Care Plan

Pursuant to the proposed EC, the Site will be subject to the following proposed activity and use limitations (AULs), which the then-current property owner, and its tenants, agents, employees, and other persons under its control, will abide by:

- The Site will remain as non-residential property as defined in the Land Recycling and Environmental Remediation Standards Act of 1995.
- Groundwater at the Site will not be used for farming, irrigation, agricultural, or potable purposes.
- The proposed engineering controls (when completed) in the areas of the PADEP Non-Residential Direct Contact and Soil-to-Groundwater MSC exceedances will be inspected and maintained to prevent exposure and to mitigate potential leaching of COCs within the underlying soils. These areas will be defined in the Remedial Action Completion Report (RACR).
- An MMP will be required for future Site intrusive work. Areas subject to the MMP will be defined in the RACR.
- The forthcoming SSDS for the proposed building will require maintenance. If additional buildings are constructed onsite, an evaluation of potential VI issues will be required to assess if mitigation is necessary.

Compliance reporting will be conducted in accordance with the Compliance Reporting section of the EC, which will include reporting of non-compliance with the AULs, transfer of the Site, changes in use of the Site, and proposals for site work that will affect the COCs on the Site.

## 5 CONCLUSIONS

The Site has undergone environmental assessment activities since 2021, when the ASTs and associated piping were removed. Based on the results of previous AST closure soil sampling and subsequent delineation soil sampling, the concentrations of benzene, naphthalene, and lead in soil associated with the ASTs have been delineated for the tank containment areas to the PADEP Non-Residential Direct Contact and Soil-to-Groundwater MSCs. No other applicable petroleum related compounds were detected above the PADEP Non-Residential MSCs.

The current plans are to use an EC with engineering controls following the redevelopment of the Site to address the remaining COCs. For efficiency purposes, the EC for the AST case will also include the site-wide soil COC data associated with the Act 2 investigation; therefore, one EC will satisfy both programs. The soil COCs associated with the Act 2 case include bis(2-chloroethyl)ether, biphenyl, and lead.

Groundwater sampling has identified benzene at concentrations greater than the PADEP Non-Residential Used Aquifer Groundwater MSC within Tank Containment Area 1. However, the concentrations have remained consistent throughout the quarterly monitoring program, and the concentrations in groundwater sampled from the downgradient wells are less than the PADEP Non-Residential Used Aquifer Groundwater MSC. In addition, lead associated with the Act 2 case has been detected in MW-9, located in Tank Containment Area 3, at concentrations above the PADEP Non-Residential Used Aquifer Groundwater MSC. Lead concentrations have remained relatively stable throughout the quarterly monitoring program, and concentrations of lead in groundwater from the downgradient monitoring well have been less than the PADEP Non-Residential Used Aquifer Groundwater MSC. The lead concentrations in the groundwater are not related to the AST case and are being addressed as part of the Act 2 case. Based on the sampling results, the current plans are to use an EC to address the benzene and lead concentrations in the groundwater.

It is anticipated that potentially complete exposure pathways associated with the Site will be eliminated by the AULs that will be memorialized in the EC for the Site, and that the Site will be in attainment with PADEP SHS and Site-Specific Standards (pathway elimination).

On behalf of Alliance 51<sup>st</sup> Street LLC, Arcadis respectfully requests PADEP concurrence with the conclusions and proposed activities set forth in this RAP. Upon PADEP approval of this RAP and confirmation of eight quarters of non-increasing trends in groundwater COCs, a RACR will be submitted to demonstrate attainment of standards.

## 6 REFERENCES

- Alliance. 2022a. Notice of Intent to Remediate under the Act 2 Program. Submitted to PADEP re: the Alliance Former 51<sup>st</sup> Street Terminal, 1630-1646 South 51<sup>st</sup> Street, Philadelphia, Pennsylvania. February 9.
- Alliance. 2022b. Site Characterization Report. Former 51<sup>st</sup> Street Terminal, Facility ID No. 51-10420, Incident No. 56662, 1630-1646 South 51<sup>st</sup> Street, Philadelphia, Pennsylvania. November 3.
- Alliance. 2023. Revised Site Characterization Report. Former 51<sup>st</sup> Street Terminal, Facility ID No. 51-10420, Incident No. 56662, 1630-1646 South 51<sup>st</sup> Street, Philadelphia, Pennsylvania. June 27.
- EDR. 2021. The EDR Radius Map<sup>TM</sup> Report with Geotcheck – 1646 S. 51<sup>st</sup> St, Philadelphia, PA, Inquiry Number 6710972.2s. October 19, 2021.
- PADEP. 2021. Statewide Health Standards. Available online at:  
<http://www.dep.pa.gov/Business/Land/LandRecycling/Standards-Guidance-Procedures/Pages/Statewide-Health-Standards.aspx>
- PADEP. 2022a. Vapor Intrusion, Vapor Intrusion Screening Value Tables. Available online at:  
<http://www.dep.pa.gov/Business/Land/LandRecycling/Standards-Guidance-Procedures/Guidance-Technical-Tools/Pages/Vapor-Intrusion.aspx>
- PADEP. 2022b. Notice of Violation. Issued in response to Notice of Intent to Remediate under the Act 2 Program. Alliance Former 51<sup>st</sup> Street Terminal, 1630-1646 South 51<sup>st</sup> Street, Philadelphia, Pennsylvania. June 8.
- PADEP. 2023a. Letter disapproving the Site Characterization Report submitted by Alliance on November 3, 2022, for the Alliance Former 51<sup>st</sup> Street Terminal, Facility ID No. 51-10420, Incident No. 56662, 1630-1646 South 51<sup>st</sup> Street, Philadelphia, Pennsylvania. February 2.
- PADEP. 2023b. Letter Approving the Revised Site Characterization Report submitted by Alliance on June 27, 2023, for the Alliance Former 51<sup>st</sup> Street Terminal, Facility ID No. 51-10420, Incident No. 56662, 1630-1646 South 51<sup>st</sup> Street, Philadelphia, Pennsylvania. September 27.
- PBF Logistics. 2021a. Aboveground Storage Tank System Closure Notification Form. PBF Logistics Products Terminals, LLC, 1630 South 51<sup>st</sup> Street, Philadelphia, Pennsylvania. June 1.
- PBF Logistics. 2021b. Notification of Release form. PBF Logistics Products Terminals, LLC, 1630 South 51<sup>st</sup> Street, Philadelphia, Pennsylvania. August 30.
- PBF Logistics. 2021c. AST Closure Report. Submitted to PADEP re: the Alliance Former 51<sup>st</sup> Street Terminal, 1630-1646 South 51<sup>st</sup> Street, Philadelphia, Pennsylvania. December 15.

TABLE



**Table 1**  
**Soil Samples with COC Concentrations Exceeding MSCs**  
**Alliance 51st Street LLC**  
**1630-1646 South 51st Street**  
**Philadelphia, Pennsylvania**

Parameter	Area	Soil Samples with COC Concentrations Exceeding MSCs			
		Pennsylvania Non-Residential Direct Contact Surface Soil (0-2 ft) MSC Criteria	Pennsylvania Non-Residential Direct Contact Subsurface Soil (2-15 ft) MSC Criteria	Applicable Pennsylvania Non-Residential Generic Soil to Groundwater MSCs Criteria	Pennsylvania Non-Residential Soil SHS Vapor Intrusion Screening Values Criteria
AST Case					
Benzene		280 mg/kg	330 mg/kg	0.5 mg/kg	0.13 mg/kg
	Tank Containment Area 1			7551-P6 (3 ft) [0.72 mg/kg]	7551-P6 (3 ft) [0.72 mg/kg]
	Tank Containment Area 1			UNK-ST-N (3 ft) [0.56 mg/kg]	UNK-ST-N (3 ft) [0.56 mg/kg]
	Tank Containment Area 3			Pipe 29(2 ft) [0.66 mg/kg]	Pipe 29(2 ft) [0.66 mg/kg]
	Tank Containment Area 1			SB-105 (4-4.5 ft) [1.8 mg/kg]	SB-105 (4-4.5 ft) [1.8 mg/kg]
	Tank Containment Area 1			SB-213 (4-4.5 ft) [1.8 mg/kg]	SB-213 (4-4.5 ft) [1.8 mg/kg]
	Tank Containment Area 1				SB-207 (4-4.5 ft) [0.19 mg/kg]
	Tank Containment Area 1				SB-216 (3.5-4 ft) [0.27 mg/kg]
Naphthalene		66 mg/kg	77 mg/kg	25 mg/kg	25 mg/kg
	Tank Containment Area 1		SB-213 (4-4.5 ft) [1,700 mg/kg]	SB-215 (4.5-5 ft) [38 mg/kg]	SB-213 (4-4.5 ft) [1,700 mg/kg]
	Tank Containment Area 1				SB-215 (4.5-5 ft) [38 mg/kg]
Lead, Total		1000 mg/kg	190,000 mg/kg	450 mg/kg	NA
	Tank Containment Area 1			7550-P1 (3 ft) [690 mg/kg]	
	Tank Containment Area 1			Pipe 70 (2 ft) [750 mg/kg]	
	Tank Containment Area 1			Pipe 81 (2 ft) [500 mg/kg]	
	Tank Containment Area 1			Pipe 86 (2 ft) [540 mg/kg]	
	Tank Containment Area 1			Pipe 87 (2 ft) [720 mg/kg]	

**Table 1**  
**Soil Samples with COC Concentrations Exceeding MSCs**  
**Alliance 51st Street LLC**  
**1630-1646 South 51st Street**  
**Philadelphia, Pennsylvania**

Parameter	Area	Soil Samples with COC Concentrations Exceeding MSCs			
		Pennsylvania Non-Residential Direct Contact Surface Soil (0-2 ft) MSC Criteria	Pennsylvania Non-Residential Direct Contact Subsurface Soil (2-15 ft) MSC Criteria	Applicable Pennsylvania Non-Residential Generic Soil to Groundwater MSCs Criteria	Pennsylvania Non-Residential Soil SHS Vapor Intrusion Screening Values Criteria
Act 2 Case					
Benzene		280 mg/kg	330 mg/kg	0.5 mg/kg	0.13 mg/kg
	Pad West of Tank Containment Area 1			SB-202 (8.5-9) [2.6 mg/kg]	SB-202 (8.5-9) [2.6 mg/kg]
	Pad West of Tank Containment Area 1			SB-204 (8.5-9) [0.59 mg/kg]	SB-204 (8.5-9) [0.59 mg/kg]
	Pad West of Tank Containment Area 1			SB-217 (8.5-9) [1 mg/kg]	SB-217 (8.5-9) [1 mg/kg]
	Pad West of Tank Containment Area 1				SB-203 (8.5-9) [0.4 mg/kg]
Lead, Total		1000 mg/kg	190,000 mg/kg	450 mg/kg	NA
	Tank Containment Area 3			941-P3 (3 ft) [610 mg/kg]	
	Tank Containment Area 3			941-Center (5 ft) [560 mg/kg]	
	Tank Containment Area 2			1043-P2 (3 ft) [490 mg/kg]	
	Tank Containment Area 2			1043-P4 (3 ft) [880 mg/kg]	
	Tank Containment Area 2			1043-P5 (3 ft) [560 mg/kg]	
	Tank Containment Area 2			1044-P3 (3 ft) [810 mg/kg]	
	Tank Containment Area 2	1044-P4 (3 ft) [2,100 mg/kg]		1044-P4 (3 ft) [2,100 mg/kg]	
	Tank Containment Area 2			1044-Center (5 ft) [990 mg/kg]	
	Tank Containment Area 3	2040-P2 (3 ft) [1,200 mg/kg]		2040-P2 (3 ft) [1,200 mg/kg]	
	Tank Containment Area 3			Pipe 33 (2 ft) [920 mg/kg]	
	Tank Containment Area 2			Pipe 46 (2 ft) [600 mg/kg]	
	Tank Containment Area 2			Pipe 51 (2 ft) [460 mg/kg]	
	Tank Containment Area 2			Pipe 55 (2 ft) [750 mg/kg]	
	Tank Containment Area 2			Pipe 61 (2 ft) [570 mg/kg]	
	Tank Containment Area 3	Pipe 22 (2 ft) [1,100 mg/kg]		Pipe 22 (2 ft) [1,100 mg/kg]	
	Tank Containment Area 3			Pipe 22 (13-13.5)	
	Tank Containment Area 2			SB-305 (2.5-3 ft) [602 mg/kg]	
Bis(2-chloroethyl)ether		6.7 mg/kg	7.6 mg/kg	0.076 mg/kg	0.14 mg/kg
				SB-103 (4.5-5 ft) [1.2 mg/kg]	SB-103 (4.5-5 ft) [1.2 mg/kg]
Biphenyl		34 mg/kg	40 mg/kg	1.5 mg/kg	0.14 mg/kg
				SB-103 (4.5-5 ft) [2.8 J mg/kg]	SB-103 (4.5-5 ft) [2.8 J mg/kg]

**Note:**

Sample identification, depth, and concentration are presented in the table. For example, Pipe 22 (2 ft) [1,100 mg/kg] is sample Pipe 22 collected at a depth of 2 feet with a lead concentration of 1,100 milligrams per kilogram (mg/kg).

**Abbreviations and Acronyms:**

AST = aboveground storage tank

COC = Constituent of Concern

ft = foot

mg/kg = milligram per kilogram

MSC = Medium-Specific Concentration

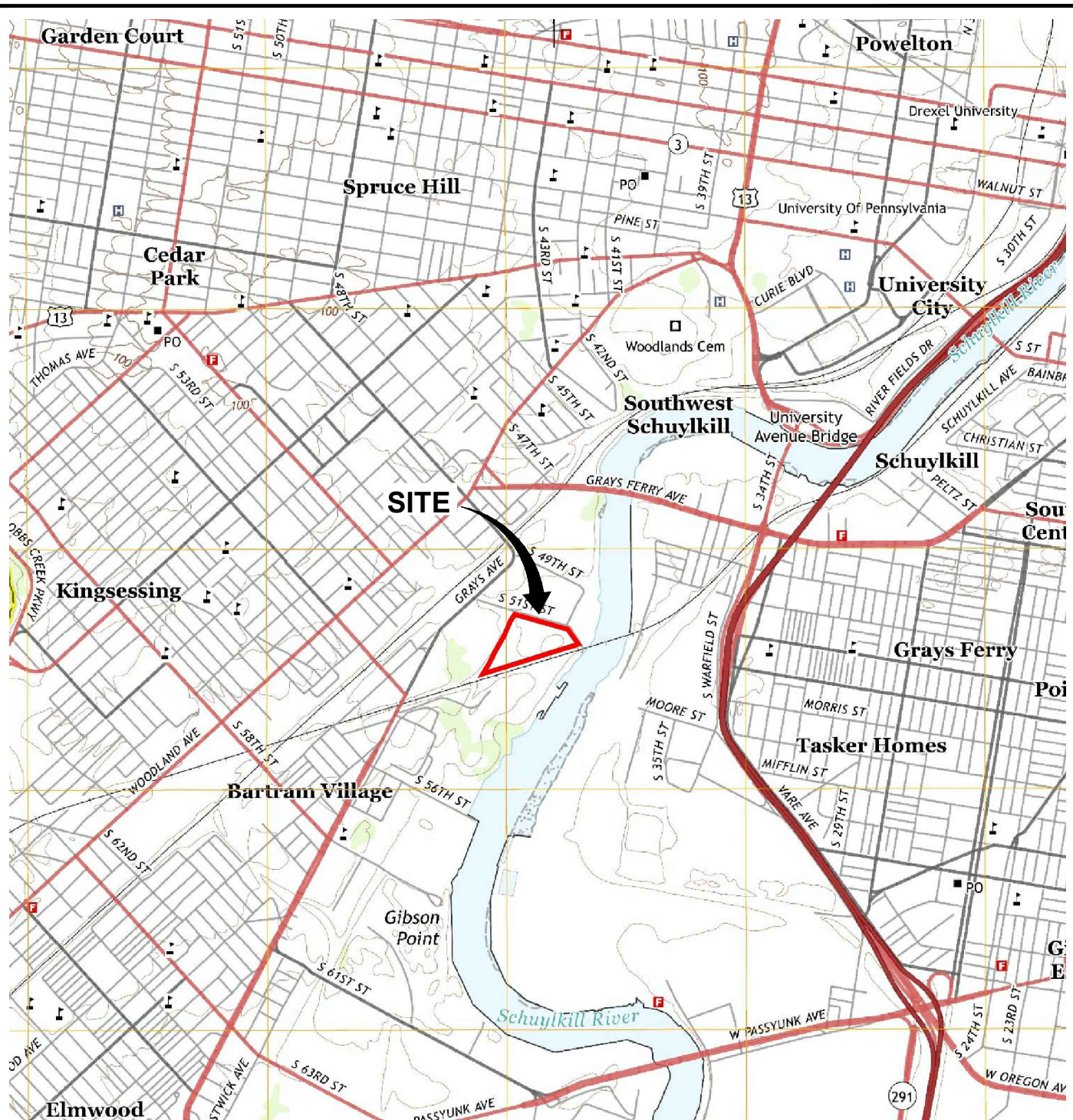
SHS = Statewide Health Standard

**Laboratory Qualifier:**

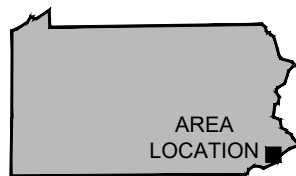
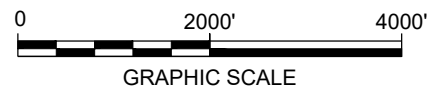
J = The compound was detected; however, the concentration is below the laboratory method detection limit. Accordingly, this concentration is estimated.

FIGURES





TOPO SOURCE: EDR, HISTORICAL TOPO MAP, TP, PHILADELPHIA, 2013, 7.5-MINUTE



PENNSYLVANIA

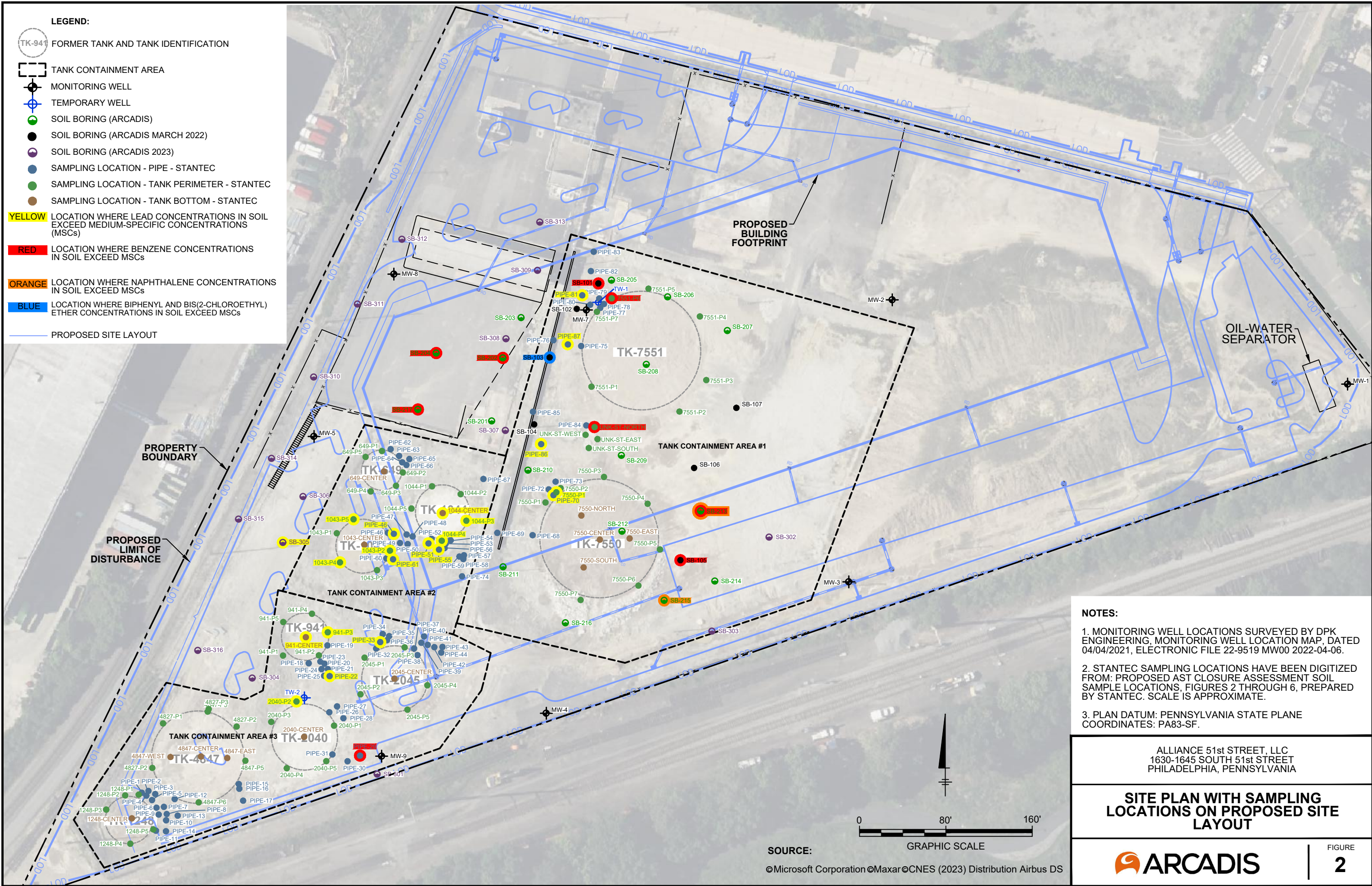
ALLIANCE HP INVESTMENTS, LLC  
1646 S. 51ST STREET  
PHILADELPHIA, PENNSYLVANIA

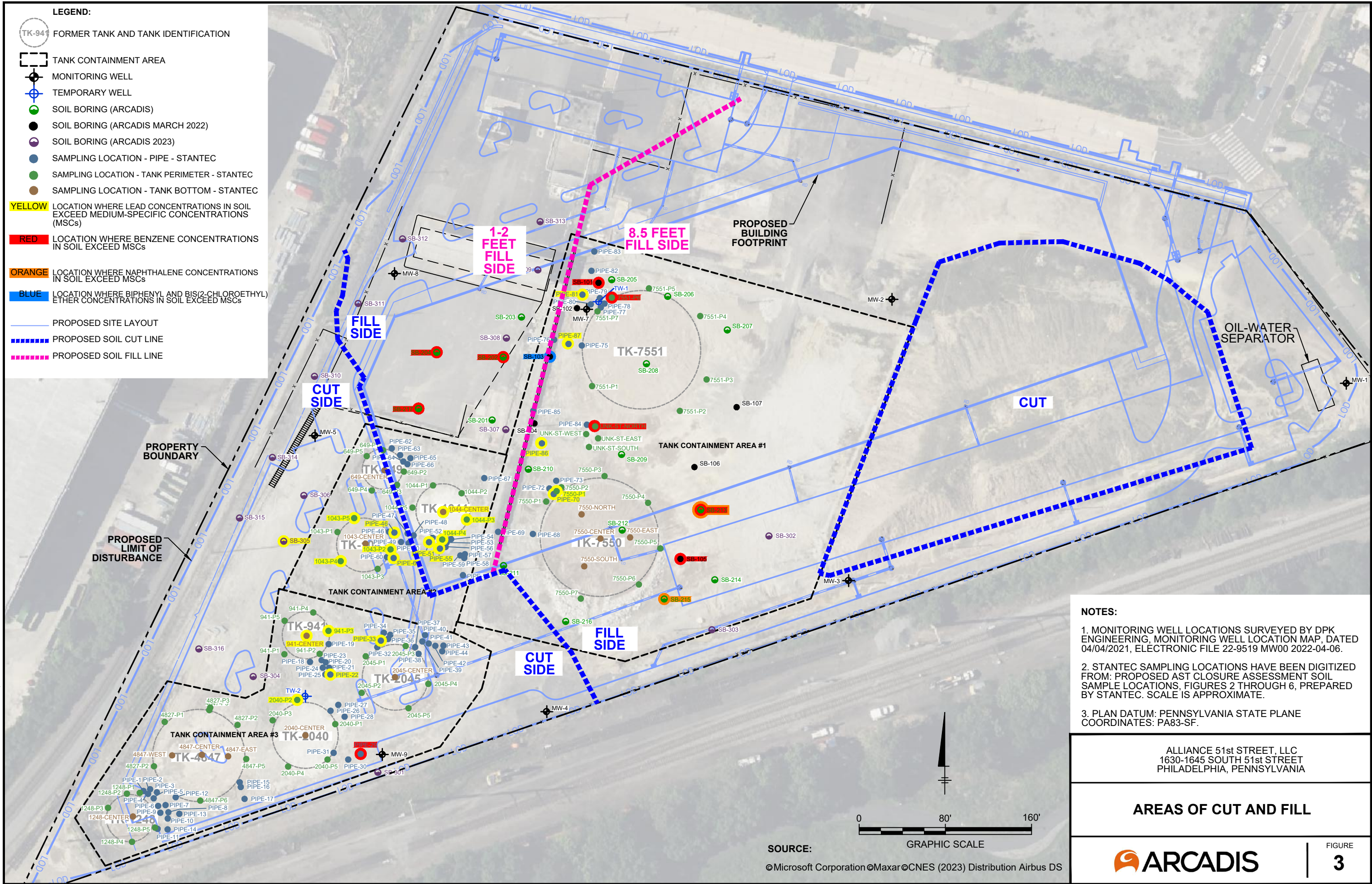
## SITE LOCATION MAP

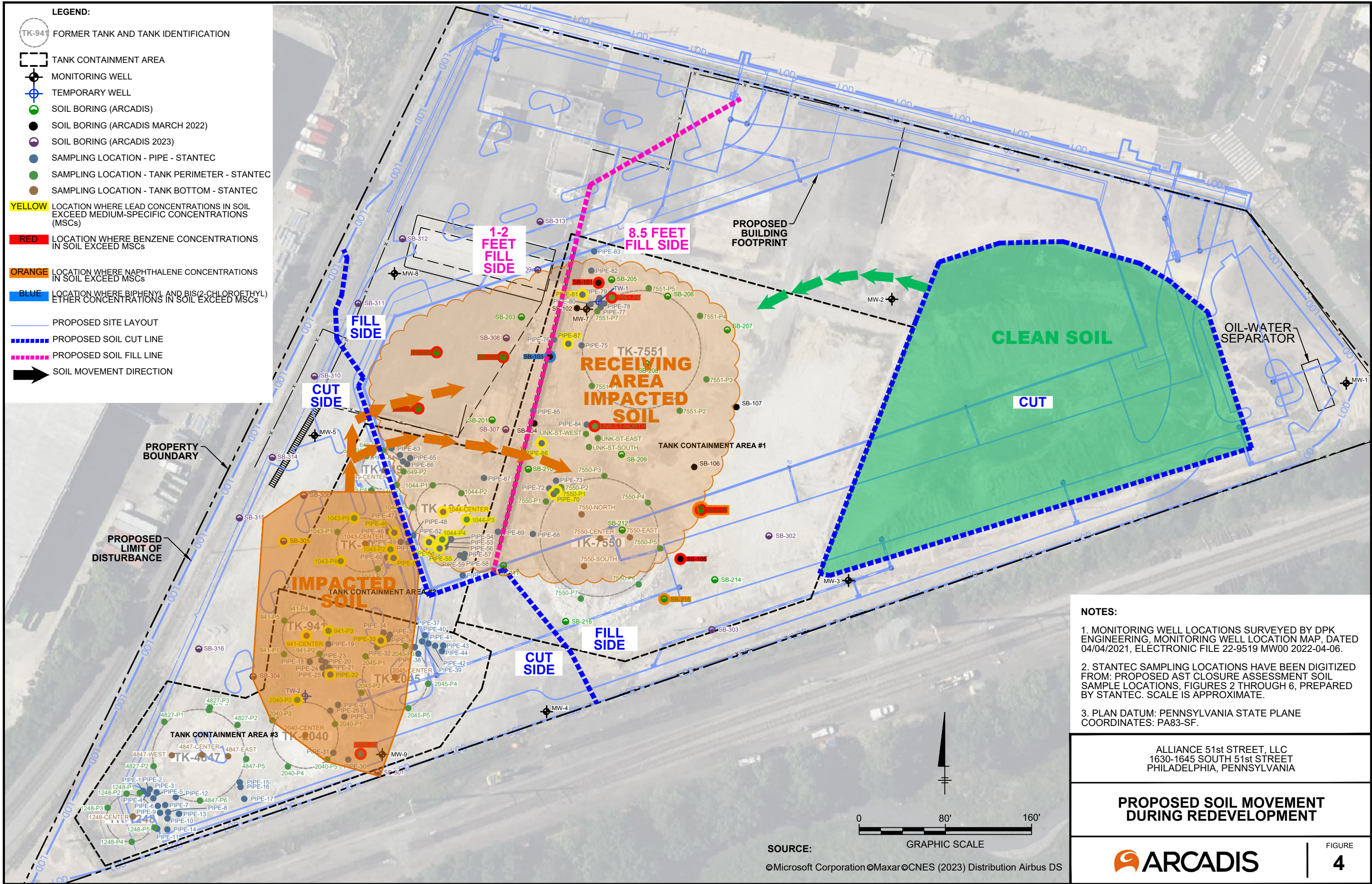


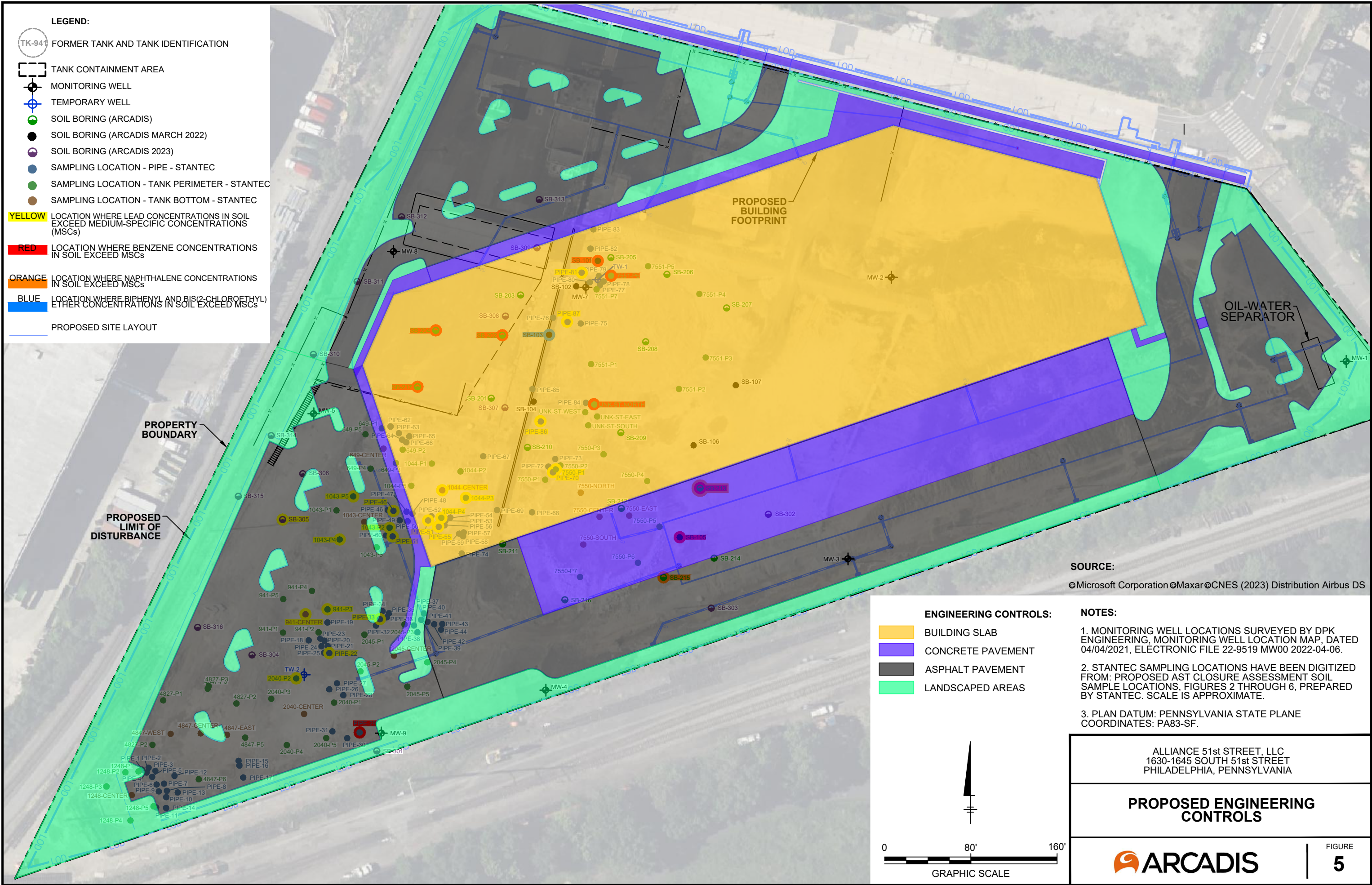
FIGURE

1









# APPENDIX A

## PADEP Correspondence



February 2, 2023

Max Ryan  
Alliance 51<sup>st</sup> Street LLC  
40 Morris Avenue, Suite 230  
Bryn Mawr, PA 19010

Re: Site Characterization Report Disapproval  
Storage Tank System Release 8/17/21  
Facility ID No. 51-10420  
Incident No. 56662  
51<sup>st</sup> Street Terminal  
1630 South 51<sup>st</sup> Street  
City of Philadelphia

Dear Mr. Ryan:

The Department of Environmental Protection (DEP) has reviewed the November 3, 2022 document titled Site Characterization Report for the release referenced above. This document was prepared by Arcadis and submitted as a Site Characterization Report (SCR) as required by 25 Pa. Code Section 245.310(a). You selected the site-specific standard as the remediation standard in soil and groundwater.

In accordance with 25 Pa. Code Section 245.310(c), DEP disapproves the SCR based on the following:

1. The extent of soil contamination was not adequately characterized in accordance with 25 Pa. Code Section 245.309(b)(4) as required by 25 Pa. Code Section 245.310(a). Soil sample PIPE-29 has not been delineated for the benzene exceedance during the AST closure.
2. The extent of groundwater contamination was not adequately characterized in accordance with 25 Pa. Code Section 245.309(b)(4) as required by 25 Pa. Code Section 245.310(a). Lead (Pb) in groundwater has not been fully delineated in the vicinity of MW-9.
3. Results of a public and private well survey were not included in the SCR in accordance with 25 Pa. Code 245.310(a)(19). There was no mention that a public and/or private well survey was performed.
4. An ecological receptor evaluation was not performed in accordance with 25 Pa. Code Section 245.310(a)(28). There were no results included in the SCR which confirmed there was an ecological receptor survey performed.

Based on this disapproval, you should correct the deficiencies and submit a revised SCR in keeping with 25 Pa. Code Section 245.310(c)(4).

Any person aggrieved by this action may appeal the action to the Environmental Hearing Board (Board), pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. § 7514, and the Administrative Agency Law, 2 Pa.C.S. Chapter 5A. The Board's address is:

Environmental Hearing Board  
Rachel Carson State Office Building, Second Floor  
400 Market Street  
P.O. Box 8457  
Harrisburg, PA 17105-8457

TDD users may contact the Environmental Hearing Board through the Pennsylvania Relay Service, 800.654.5984.

Appeals must be filed with the Board within 30 days of receipt of notice of this action unless the appropriate statute provides a different time. This paragraph does not, in and of itself, create any right of appeal beyond that permitted by applicable statutes and decisional law.

A Notice of Appeal form and the Board's rules of practice and procedure may be obtained online at <http://ehb.courtapps.com> or by contacting the Secretary to the Board at 717.787.3483. The Notice of Appeal form and the Board's rules are also available in braille and on audiotape from the Secretary to the Board.

IMPORTANT LEGAL RIGHTS ARE AT STAKE. YOU SHOULD SHOW THIS DOCUMENT TO A LAWYER AT ONCE. IF YOU CANNOT AFFORD A LAWYER, YOU MAY QUALIFY FOR FREE PRO BONO REPRESENTATION. CALL THE SECRETARY TO THE BOARD AT 717.787.3483 FOR MORE INFORMATION. YOU DO NOT NEED A LAWYER TO FILE A NOTICE OF APPEAL WITH THE BOARD.

IF YOU WANT TO CHALLENGE THIS ACTION, YOUR APPEAL MUST BE FILED WITH AND RECEIVED BY THE BOARD WITHIN 30 DAYS OF RECEIPT OF NOTICE OF THIS ACTION.

If you have any questions, please contact Rebecca Flannery by email at [rflannery@pa.gov](mailto:rflannery@pa.gov) or by telephone at 484.250.5779.

Sincerely,

***Ragesh R. Patel***

Ragesh R. Patel  
Regional Manager  
Environmental Cleanup and Brownfields

cc: Philadelphia Department of Public Health (via email)  
City of Philadelphia L&I(via email)  
Mr. Brunt, Arcadis (via email)  
Mr. Staron (via email)  
Ms. Flannery (via email)  
Mr. Herrick, Esq. (via email)

September 27, 2023

Max Ryan  
Alliance 51<sup>st</sup> Street LLC  
40 Morris Avenue, Suite 230  
Bryn Mawr, PA 19010

Re: Site Characterization Report Approval  
Storage Tank System Release August 17, 2021  
Facility ID No. 51-10420  
Incident No. 56662  
51<sup>st</sup> Street Terminal  
1630 South 51<sup>st</sup> Street  
City of Philadelphia

Dear Mr. Ryan:

The Department of Environmental Protection (DEP) has reviewed the June 27, 2023 document titled "Site Characterization Report" amended September 26, 2023 for the release referenced above. This document was prepared by Arcadis and submitted as a Site Characterization Report (SCR) as required by 25 Pa. Code Section 245.310(a). You selected the site-specific standard as the remediation standard for soil.

DEP approves the SCR in accordance with 25 Pa. Code Section 245.310(c)(1).

25 Pa. Code Section 245.311 requires that a Remedial Action Plan (RAP) be submitted within 45 days of approval of the SCR. Failure to submit a RAP by that date may result in enforcement action by DEP.

Any person aggrieved by this action may appeal the action to the Environmental Hearing Board (Board), pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. § 7514, and the Administrative Agency Law, 2 Pa.C.S. Chapter 5A. The Board's address is:

Environmental Hearing Board  
Rachel Carson State Office Building, Second Floor  
400 Market Street  
P.O. Box 8457  
Harrisburg, PA 17105-8457

TDD users may contact the Environmental Hearing Board through the Pennsylvania Relay Service, 800.654.5984.

Appeals must be filed with the Board within 30 days of receipt of notice of this action unless the appropriate statute provides a different time. This paragraph does not, in and of itself, create any right of appeal beyond that permitted by applicable statutes and decisional law.

A Notice of Appeal form and the Board's rules of practice and procedure may be obtained online at <http://ehb.courtapps.com> or by contacting the Secretary to the Board at 717.787.3483. The Notice of Appeal form and the Board's rules are also available in braille and on audiotape from the Secretary to the Board.

IMPORTANT LEGAL RIGHTS ARE AT STAKE. YOU SHOULD SHOW THIS DOCUMENT TO A LAWYER AT ONCE. IF YOU CANNOT AFFORD A LAWYER, YOU MAY QUALIFY FOR FREE PRO BONO REPRESENTATION. CALL THE SECRETARY TO THE BOARD AT 717.787.3483 FOR MORE INFORMATION. YOU DO NOT NEED A LAWYER TO FILE A NOTICE OF APPEAL WITH THE BOARD.

IF YOU WANT TO CHALLENGE THIS ACTION, YOUR APPEAL MUST BE FILED WITH AND RECEIVED BY THE BOARD WITHIN 30 DAYS OF RECEIPT OF NOTICE OF THIS ACTION.

If you have any questions, please contact Rebecca Flannery by email at [rflannery@pa.gov](mailto:rflannery@pa.gov) or by telephone at 484.250.5779.

Sincerely,

*Ragesh R. Patel*

Ragesh R. Patel  
Regional Manager  
Environmental Cleanup and Brownfields

cc: Philadelphia Department of Public Health (via email)  
City of Philadelphia L&I(via email)  
Mr. Brunt, Arcadis (via email)  
Mr. Staron (via email)  
Ms. Flannery (via email)

# APPENDIX B

## 1-Mile Radius Well Search





1-Mile Radius Well Search  
Alliance 51st Street LLC  
1646 South 51st Street  
Philadelphia, Pennsylvania

Pennsylvania											
Well ID	County	Municipality	QuadName	Well Address	Well Zip Code	Date Drilled	Type Of Activity	Latitude	Longitude	Driller	
696276	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5525 GRAYS AVE	19143	10/22/1999	NEW WELL	39.93295	-75.21859	B. L. MYERS BROS OF MDLLC	
696275	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5525 GRAYS RD		10/22/1999	NEW WELL	39.93295	-75.21859	B. L. MYERS BROS OF MDLLC	
696275	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5525 GRAYS RD		10/22/1999	NEW WELL	39.93295	-75.21859	B. L. MYERS BROS OF MDLLC	
696274	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5525 GRAYS AVE	19143	10/22/1999	NEW WELL	39.93295	-75.21859	B. L. MYERS BROS OF MDLLC	
696274	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5525 GRAYS AVE	19143	10/22/1999	NEW WELL	39.93295	-75.21859	B. L. MYERS BROS OF MDLLC	
693848	PHILADELPHIA	PHILADELPHIA				4/1/2021	NEW WELL	39.93227	-75.20372	PARRATT-WOLFF INC	
692752	PHILADELPHIA	PHILADELPHIA		5945 LINDBERGH BLVD		1/25/2021	WELL ABANDONMENT	39.92566	-75.22128	C S GARBER & SONS INC	
692744	PHILADELPHIA	PHILADELPHIA		5945 LINDBERGH BLVD		1/25/2021	WELL ABANDONMENT	39.92534	-75.22064	C S GARBER & SONS INC	
692724	PHILADELPHIA	PHILADELPHIA		5945 LINDBERGH BLVD		1/25/2021	WELL ABANDONMENT	39.92567	-75.22141	C S GARBER & SONS INC	
692723	PHILADELPHIA	PHILADELPHIA		5945 LINDBERGH BLVD		1/25/2021	WELL ABANDONMENT	39.92539	-75.22091	C S GARBER & SONS INC	
692721	PHILADELPHIA	PHILADELPHIA		5945 LINDBERGH BLVD		1/25/2021	WELL ABANDONMENT	39.92563	-75.22127	C S GARBER & SONS INC	
692704	PHILADELPHIA	PHILADELPHIA		5945 LINDBERGH BLVD		1/25/2021	WELL ABANDONMENT	39.92533	-75.22099	C S GARBER & SONS INC	
692703	PHILADELPHIA	PHILADELPHIA		5945 LINDBERGH BLVD		1/25/2021	WELL ABANDONMENT	39.92558	-75.22108	C S GARBER & SONS INC	
692701	PHILADELPHIA	PHILADELPHIA		5945 LINDBERGH BLVD		1/25/2021	WELL ABANDONMENT	39.92569	-75.22158	C S GARBER & SONS INC	
692691	PHILADELPHIA	PHILADELPHIA		5945 LINDBERGH BLVD		1/25/2021	WELL ABANDONMENT	39.92526	-75.22076	C S GARBER & SONS INC	
692688	PHILADELPHIA	PHILADELPHIA		5945 LINDBERGH BLVD		1/25/2021	WELL ABANDONMENT	39.92542	-75.22084	C S GARBER & SONS INC	
692687	PHILADELPHIA	PHILADELPHIA		5945 LINDBERGH BLVD		1/25/2021	WELL ABANDONMENT	39.92533	-75.22151	C S GARBER & SONS INC	
692686	PHILADELPHIA	PHILADELPHIA		5945 LINDBERGH BLVD		1/25/2021	WELL ABANDONMENT	39.92553	-75.22137	C S GARBER & SONS INC	
682795	PHILADELPHIA	PHILADELPHIA				12/12/2019	NEW WELL	39.93155	-75.20294	PARRATT-WOLFF INC	
681250	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	4500 Baltimore Avenue	19143	10/29/2019	WELL ABANDONMENT	39.94885	-75.21293	ODYSSEY ENVIRONMENTAL SERVICES INC.	
681250	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	4500 Baltimore Avenue	19143	10/29/2019	WELL ABANDONMENT	39.94885	-75.21293	ODYSSEY ENVIRONMENTAL SERVICES INC.	
681244	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	4500 Baltimore Avenue	19143	10/29/2019	WELL ABANDONMENT	39.94884	-75.21282	ODYSSEY ENVIRONMENTAL SERVICES INC.	
681244	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	4500 Baltimore Avenue	19143	10/29/2019	WELL ABANDONMENT	39.94884	-75.21282	ODYSSEY ENVIRONMENTAL SERVICES INC.	
681230	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	4500 Baltimore Avenue	19143	10/29/2019	WELL ABANDONMENT	39.94893	-75.21292	ODYSSEY ENVIRONMENTAL SERVICES INC.	
681230	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	4500 Baltimore Avenue	19143	10/29/2019	WELL ABANDONMENT	39.94893	-75.21292	ODYSSEY ENVIRONMENTAL SERVICES INC.	
681228	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	4500 Baltimore Avenue	19143	10/29/2019	WELL ABANDONMENT	39.94895	-75.21301	ODYSSEY ENVIRONMENTAL SERVICES INC.	
681228	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	4500 Baltimore Avenue	19143	10/29/2019	WELL ABANDONMENT	39.94895	-75.21301	ODYSSEY ENVIRONMENTAL SERVICES INC.	
681211	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	4500 Baltimore Avenue	19143	10/29/2019	WELL ABANDONMENT	39.94864	-75.21311	ODYSSEY ENVIRONMENTAL SERVICES INC.	
681211	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	4500 Baltimore Avenue	19143	10/29/2019	WELL ABANDONMENT	39.94864	-75.21311	ODYSSEY ENVIRONMENTAL SERVICES INC.	
681186	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	4500 Baltimore Avenue	19143	10/29/2019	WELL ABANDONMENT	39.94886	-75.21295	ODYSSEY ENVIRONMENTAL SERVICES INC.	
681186	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	4500 Baltimore Avenue	19143	10/29/2019	WELL ABANDONMENT	39.94886	-75.21295	ODYSSEY ENVIRONMENTAL SERVICES INC.	
681178	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	4500 Baltimore Avenue	19143	10/29/2019	WELL ABANDONMENT	39.94886	-75.21296	ODYSSEY ENVIRONMENTAL SERVICES INC.	
681178	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	4500 Baltimore Avenue	19143	10/29/2019	WELL ABANDONMENT	39.94886	-75.21296	ODYSSEY ENVIRONMENTAL SERVICES INC.	
681156	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	4500 Baltimore Avenue	19143	10/29/2019	WELL ABANDONMENT	39.94884	-75.21294	ODYSSEY ENVIRONMENTAL SERVICES INC.	
681156	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	4500 Baltimore Avenue	19143	10/29/2019	WELL ABANDONMENT	39.94884	-75.21294	ODYSSEY ENVIRONMENTAL SERVICES INC.	
681155	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	4500 Baltimore Avenue	19143	10/29/2019	WELL ABANDONMENT	39.94886	-75.21298	ODYSSEY ENVIRONMENTAL SERVICES INC.	
681155	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	4500 Baltimore Avenue	19143	10/29/2019	WELL ABANDONMENT	39.94886	-75.21298	ODYSSEY ENVIRONMENTAL SERVICES INC.	
681152	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	4500 Baltimore Avenue	19143	10/29/2019	WELL ABANDONMENT	39.94889	-75.21302	ODYSSEY ENVIRONMENTAL SERVICES INC.	
681152	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	4500 Baltimore Avenue	19143	10/29/2019	WELL ABANDONMENT	39.94889	-75.21302	ODYSSEY ENVIRONMENTAL SERVICES INC.	
681146	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	4500 Baltimore Avenue	19143	10/29/2019	WELL ABANDONMENT	39.94887	-75.21323	ODYSSEY ENVIRONMENTAL SERVICES INC.	
681146	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	4500 Baltimore Avenue	19143	10/29/2019	WELL ABANDONMENT	39.94887	-75.21323	ODYSSEY ENVIRONMENTAL SERVICES INC.	
681118	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	4500 Baltimore Avenue	19143	10/29/2019	WELL ABANDONMENT	39.94875	-75.21311	ODYSSEY ENVIRONMENTAL SERVICES INC.	
681118	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	4500 Baltimore Avenue	19143	10/29/2019	WELL ABANDONMENT	39.94875	-75.21311	ODYSSEY ENVIRONMENTAL SERVICES INC.	
680920	PHILADELPHIA	PHILADELPHIA		3144 Passyunk Ave		10/18/2019	NEW WELL	39.92959	-75.2001	PARRATT-WOLFF INC	
680919	PHILADELPHIA	PHILADELPHIA		3144 Passyunk Ave		10/17/2019	NEW WELL	39.93021	-75.20193	PARRATT-WOLFF INC	
680917	PHILADELPHIA	PHILADELPHIA		3144 Passyunk Ave		10/17/2019	NEW WELL	39.9307	-75.20149	PARRATT-WOLFF INC	
680684	PHILADELPHIA	PHILADELPHIA		3144 Passyunk Ave		10/7/2019	NEW WELL	39.92385	-75.1998	PARRATT-WOLFF INC	
680683	PHILADELPHIA	PHILADELPHIA		3144 Passyunk Ave		10/3/2019	NEW WELL	39.92383	-75.19999	PARRATT-WOLFF INC	
680667	PHILADELPHIA	PHILADELPHIA		3144 Passyunk Ave		10/2/2019	NEW WELL	39.92317	-75.20204	PARRATT-WOLFF INC	
680666	PHILADELPHIA	PHILADELPHIA		3144 Passyunk Avenue		9/30/2019	NEW WELL	39.9239	-75.19954	PARRATT-WOLFF INC	
680474	PHILADELPHIA	PHILADELPHIA		3144 Passyunk Avenueu		9/24/2019	NEW WELL	39.92303	-75.2024	PARRATT-WOLFF INC	
680416	PHILADELPHIA	PHILADELPHIA		3144 Passyunk Ave		9/24/2019	NEW WELL	39.92392	-75.19885	PARRATT-WOLFF INC	
680415	PHILADELPHIA	PHILADELPHIA		3144 Passyunk Avene		9/25/2019	NEW WELL	39.924	-75.19946	PARRATT-WOLFF INC	
680387	PHILADELPHIA	PHILADELPHIA		3144 Passyunk Avenueu		9/23/2019	NEW WELL	39.92412	-75.19895	PARRATT-WOLFF INC	
680042	PHILADELPHIA	PHILADELPHIA		3144 Passyunk Ave		9/18/2019	NEW WELL	39.92383	-75.19936	PARRATT-WOLFF INC	
680041	PHILADELPHIA	PHILADELPHIA		3144 Passyunk Ave		9/17/2019	NEW WELL	39.92373	-75.19961	PARRATT-WOLFF INC	
680040	PHILADELPHIA	PHILADELPHIA		3144 Passyunk Ave		9/18/2019	NEW WELL	39.92367	-75.19979	PARRATT-WOLFF INC	
680039	PHILADELPHIA	PHILADELPHIA		3144 Passyunk Ave		9/19/2019	NEW WELL	39.92362	-75.19996	PARRATT-WOLFF INC	
679742	PHILADELPHIA	PHILADELPHIA		3144 Passyunk Ave		9/11/2019	NEW WELL	39.92383	-75.1998	PARRATT-WOLFF INC	
679715	PHILADELPHIA	PHILADELPHIA		3144 Passyunk Avenue		9/10/2019	NEW WELL	39.9238	-75.19933	PARRATT-WOLFF INC	
679712	PHILADELPHIA	PHILADELPHIA		3144 Passyunk Avenue		9/11/2019	NEW WELL	39.92308	-75.20233	PARRATT-WOLFF INC	
679701	PHILADELPHIA	PHILADELPHIA				9/12/2019	NEW WELL	39.9241	-75.19887	PARRATT-WOLFF INC	

1-Mile Radius Well Search  
Alliance 51st Street LLC  
1646 South 51st Street  
Philadelphia, Pennsylvania

Pennsylvania	County	Municipality	QuadName	Well Address	Well Zip Code	Date Drilled	Type Of Activity	Latitude	Longitude	Driller
Well ID										
679605	PHILADELPHIA	PHILADELPHIA		3144 Passyunk Avenue		8/28/2019	NEW WELL	39.92349	-75.20041	PARRATT-WOLFF INC
679576	PHILADELPHIA	PHILADELPHIA		3144 Passyunk Avenue		9/3/2019	NEW WELL	39.92363	-75.19987	PARRATT-WOLFF INC
679575	PHILADELPHIA	PHILADELPHIA		3144 Passyunk Avenue		9/4/2019	NEW WELL	39.92368	-75.19964	PARRATT-WOLFF INC
679572	PHILADELPHIA	PHILADELPHIA		3144 Passyunk Avenue		9/5/2019	NEW WELL	39.92374	-75.19942	PARRATT-WOLFF INC
679549	PHILADELPHIA	PHILADELPHIA		3144 Passyunk Avenue		8/26/2019	NEW WELL	39.92331	-75.20097	PARRATT-WOLFF INC
679538	PHILADELPHIA	PHILADELPHIA		3144 Passyunk Avenue		8/29/2019	NEW WELL	39.92356	-75.20023	PARRATT-WOLFF INC
679537	PHILADELPHIA	PHILADELPHIA		3144 Passyunk Avenue		8/27/2019	NEW WELL	39.92339	-75.20073	PARRATT-WOLFF INC
679309	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5101 Woodland Ave	19143	8/26/2019	WELL ABANDONMENT	39.9381	-75.2162	ALEXANDER MACPHEE--CVM INDUSTRIES
679301	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5101 Woodland Ave	19143	8/26/2019	WELL ABANDONMENT	39.938	-75.21609	ALEXANDER MACPHEE--CVM INDUSTRIES
679296	PHILADELPHIA	PHILADELPHIA		5101 Woodland Ave	19143	8/26/2019	WELL ABANDONMENT	39.93805	-75.21616	ALEXANDER MACPHEE--CVM INDUSTRIES
679295	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5101 Woodland Ave	19143	8/26/2019	WELL ABANDONMENT	39.93705	-75.21638	ALEXANDER MACPHEE--CVM INDUSTRIES
679288	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5101 Woodland Ave	19143	8/26/2019	WELL ABANDONMENT	39.93807	-75.21638	ALEXANDER MACPHEE--CVM INDUSTRIES
679287	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5101 Woodlawn Ave.	19143	8/26/2019	WELL ABANDONMENT	39.93807	-75.21638	ALEXANDER MACPHEE--CVM INDUSTRIES
679286	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5101 Woodlawn Ave.	19143	8/26/2019	WELL ABANDONMENT	39.93806	-75.21622	ALEXANDER MACPHEE--CVM INDUSTRIES
679285	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5101 Woodland Ave	19143	8/26/2019	WELL ABANDONMENT	39.93806	-75.21622	ALEXANDER MACPHEE--CVM INDUSTRIES
679284	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5101 Woodland Ave.	19143	8/26/2019	WELL ABANDONMENT	39.93804	-75.21635	ALEXANDER MACPHEE--CVM INDUSTRIES
679279	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5101 Woodland Ave	19143	8/26/2019	WELL ABANDONMENT	39.93792	-75.21619	ALEXANDER MACPHEE--CVM INDUSTRIES
679278	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5101 Woodland Ave	19143	8/26/2019	WELL ABANDONMENT	39.9379	-75.21647	ALEXANDER MACPHEE--CVM INDUSTRIES
679271	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5101	19143	8/26/2019	WELL ABANDONMENT	39.93806	-75.21622	ALEXANDER MACPHEE--CVM INDUSTRIES
679265	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5101 Woodland Ave	19143	8/26/2019	WELL ABANDONMENT	39.93798	-75.21678	ALEXANDER MACPHEE--CVM INDUSTRIES
679264	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5101 Woodland Ave	19143	8/26/2019	WELL ABANDONMENT	39.93794	-75.21625	ALEXANDER MACPHEE--CVM INDUSTRIES
679263	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5101 Woodland Ave	19143	8/26/2019	WELL ABANDONMENT	39.93813	-75.21629	ALEXANDER MACPHEE--CVM INDUSTRIES
679262	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5101 Woodland Ave	19143	8/26/2019	WELL ABANDONMENT	39.9379	-75.21618	ALEXANDER MACPHEE--CVM INDUSTRIES
679254	PHILADELPHIA	PHILADELPHIA		3144 Passyunk Ave		8/19/2019	NEW WELL	39.92315	-75.20146	PARRATT-WOLFF INC
679253	PHILADELPHIA	PHILADELPHIA		3144 Passyunk Ave		8/22/2019	NEW WELL	39.92321	-75.20128	PARRATT-WOLFF INC
679252	PHILADELPHIA	PHILADELPHIA		3144 Passyunk Avenue		8/15/2019	NEW WELL	39.92352	-75.2007	PARRATT-WOLFF INC
679133	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5101 Woodland Ave	19143	8/26/2019	WELL ABANDONMENT	39.93809	-75.21616	ALEXANDER MACPHEE--CVM INDUSTRIES
679065	PHILADELPHIA	PHILADELPHIA		3144 Passyunk Avenue		8/14/2019	NEW WELL	39.92363	-75.20041	PARRATT-WOLFF INC
679015	PHILADELPHIA	PHILADELPHIA		3144 Passyunk Avenue		8/13/2019	NEW WELL	39.9237	-75.2002	PARRATT-WOLFF INC
678983	PHILADELPHIA	PHILADELPHIA		3144 Passyunk Ave		8/7/2019	NEW WELL	39.9229	-75.20236	PARRATT-WOLFF INC
678982	PHILADELPHIA	PHILADELPHIA		3144 Passyunk Ave		8/8/2019	NEW WELL	39.92299	-75.20204	PARRATT-WOLFF INC
678981	PHILADELPHIA	PHILADELPHIA		3144 Passyunk Avenue		8/12/2019	NEW WELL	39.92307	-75.20178	PARRATT-WOLFF INC
673122	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	1350 SCHUYLKILL AVE		4/6/2004	NEW WELL	39.93865	-75.20395	AMERIDRILL INC.
673122	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	1350 SCHUYLKILL AVE		4/6/2004	NEW WELL	39.93865	-75.20395	AMERIDRILL INC.
673121	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	1350 SCHUYLKILL AVE		4/6/2004	NEW WELL	39.93865	-75.20395	AMERIDRILL INC.
673121	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	1350 SCHUYLKILL AVE		4/6/2004	NEW WELL	39.93865	-75.20395	AMERIDRILL INC.
668978	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5744 Woodland Avenue	19143	9/13/2018	WELL ABANDONMENT	39.93251	-75.22392	ODYSSEY ENVIRONMENTAL SERVICES INC.
668978	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5744 Woodland Avenue	19143	9/13/2018	WELL ABANDONMENT	39.93251	-75.22392	ODYSSEY ENVIRONMENTAL SERVICES INC.
668977	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5744 Woodland Avenue	19143	9/13/2018	WELL ABANDONMENT	39.93244	-75.22386	ODYSSEY ENVIRONMENTAL SERVICES INC.
668977	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5744 Woodland Avenue	19143	9/13/2018	WELL ABANDONMENT	39.93244	-75.22386	ODYSSEY ENVIRONMENTAL SERVICES INC.
668884	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5744 Woodland Ave	19143	9/13/2018	WELL ABANDONMENT	39.93247	-75.22439	ODYSSEY ENVIRONMENTAL SERVICES INC.
668884	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5744 Woodland Ave	19143	9/13/2018	WELL ABANDONMENT	39.93247	-75.22439	ODYSSEY ENVIRONMENTAL SERVICES INC.
668866	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5744 Woodland Ave	19143	9/13/2018	WELL ABANDONMENT	39.93259	-75.22386	ODYSSEY ENVIRONMENTAL SERVICES INC.
668866	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5744 Woodland Ave	19143	9/13/2018	WELL ABANDONMENT	39.93259	-75.22386	ODYSSEY ENVIRONMENTAL SERVICES INC.
668849	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5744 Woodland Avenue	19143	9/13/2018	WELL ABANDONMENT	39.93263	-75.22412	ODYSSEY ENVIRONMENTAL SERVICES INC.
668849	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5744 Woodland Avenue	19143	9/13/2018	WELL ABANDONMENT	39.93263	-75.22412	ODYSSEY ENVIRONMENTAL SERVICES INC.
668848	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5744 Woodland Avenue	19143	9/13/2018	WELL ABANDONMENT	39.93237	-75.22429	ODYSSEY ENVIRONMENTAL SERVICES INC.

1-Mile Radius Well Search  
Alliance 51st Street LLC  
1646 South 51st Street  
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Pennsylvania Well ID	County	Municipality	QuadName	Well Address	Well Zip Code	Date Drilled	Type Of Activity	Latitude	Longitude	Driller
668848	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5744 Woodland Avenue	19143	9/13/2018	WELL ABANDONMENT	39.93237	-75.22429	ODYSSEY ENVIRONMENTAL SERVICES INC.
668841	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5744 Woodland Ave	19143	9/13/2018	WELL ABANDONMENT	39.93278	-75.22384	ODYSSEY ENVIRONMENTAL SERVICES INC.
668841	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5744 Woodland Ave	19143	9/13/2018	WELL ABANDONMENT	39.93278	-75.22384	ODYSSEY ENVIRONMENTAL SERVICES INC.
668755	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5744 Woodland Avenue	19143	9/13/2018	WELL ABANDONMENT	39.93252	-75.22371	ODYSSEY ENVIRONMENTAL SERVICES INC.
668755	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5744 Woodland Avenue	19143	9/13/2018	WELL ABANDONMENT	39.93252	-75.22371	ODYSSEY ENVIRONMENTAL SERVICES INC.
668752	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5744 Woodland Avenue	19143	9/13/2018	WELL ABANDONMENT	39.93267	-75.22395	ODYSSEY ENVIRONMENTAL SERVICES INC.
668752	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5744 Woodland Avenue	19143	9/13/2018	WELL ABANDONMENT	39.93267	-75.22395	ODYSSEY ENVIRONMENTAL SERVICES INC.
653657	PHILADELPHIA	PHILADELPHIA		3107 S 61st Street	19153	9/1/2017	NEW WELL	39.92517	-75.21384	ALLIED WELL DRILLING
653650	PHILADELPHIA	PHILADELPHIA		3107 S 61st Street	19153	9/5/2017	NEW WELL	39.92419	-75.21616	ALLIED WELL DRILLING
653649	PHILADELPHIA	PHILADELPHIA		3107 S 61st Street	19153	8/31/2017	NEW WELL	39.92396	-75.21372	ALLIED WELL DRILLING
653648	PHILADELPHIA	PHILADELPHIA		3107 S 61st Street	19153	8/31/2017	NEW WELL	39.92257	-75.21403	ALLIED WELL DRILLING
653505	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			8/29/2017	NEW WELL	39.93021	-75.20081	PARRATT-WOLFF INC
653505	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			8/29/2017	NEW WELL	39.93021	-75.20081	PARRATT-WOLFF INC
653505	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			8/29/2017	NEW WELL	39.93021	-75.20081	PARRATT-WOLFF INC
648797	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5200 Woodland Ave.	19143	8/23/2016	NEW WELL	39.93806	-75.21617	AMERIDRILL INC.
643401	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			7/25/2016	NEW WELL	39.92517	-75.20346	PARRATT-WOLFF INC
643401	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			7/25/2016	NEW WELL	39.92517	-75.20346	PARRATT-WOLFF INC
643400	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			8/23/2016	NEW WELL	39.92419	-75.19915	PARRATT-WOLFF INC
643400	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			8/23/2016	NEW WELL	39.92419	-75.19915	PARRATT-WOLFF INC
643399	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			8/17/2016	NEW WELL	39.9217	-75.20739	PARRATT-WOLFF INC
643399	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			8/17/2016	NEW WELL	39.9217	-75.20739	PARRATT-WOLFF INC
642905	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			8/8/2016	NEW WELL	39.92402	-75.20774	PARRATT-WOLFF INC
642905	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			8/8/2016	NEW WELL	39.92402	-75.20774	PARRATT-WOLFF INC
642893	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			8/9/2016	NEW WELL	39.92394	-75.20592	PARRATT-WOLFF INC
642893	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			8/9/2016	NEW WELL	39.92394	-75.20592	PARRATT-WOLFF INC
642823	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			8/9/2016	NEW WELL	39.92429	-75.20617	PARRATT-WOLFF INC
642823	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			8/9/2016	NEW WELL	39.92429	-75.20617	PARRATT-WOLFF INC
642822	PHILADELPHIA	PHILADELPHIA				8/4/2016	NEW WELL	39.92395	-75.2059	PARRATT-WOLFF INC
642822	PHILADELPHIA	PHILADELPHIA				8/4/2016	NEW WELL	39.92395	-75.2059	PARRATT-WOLFF INC
642821	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			8/4/2016	NEW WELL	39.92521	-75.20528	PARRATT-WOLFF INC
642821	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			8/4/2016	NEW WELL	39.92521	-75.20528	PARRATT-WOLFF INC
642820	PHILADELPHIA	PHILADELPHIA				8/5/2016	NEW WELL	39.9235	-75.2056	PARRATT-WOLFF INC
642820	PHILADELPHIA	PHILADELPHIA				8/5/2016	NEW WELL	39.9235	-75.2056	PARRATT-WOLFF INC
642820	PHILADELPHIA	PHILADELPHIA				8/5/2016	NEW WELL	39.9235	-75.2056	PARRATT-WOLFF INC
623377	PHILADELPHIA	PHILADELPHIA		1201 S 35th St		8/13/2015	NEW WELL	39.93959	-75.19896	ODYSSEY ENVIRONMENTAL SERVICES INC.
623376	PHILADELPHIA	PHILADELPHIA		1201 S 35th st		8/13/2015	NEW WELL	39.93922	-75.19968	ODYSSEY ENVIRONMENTAL SERVICES INC.
623375	PHILADELPHIA	PHILADELPHIA		1201 S 35th St		8/13/2015	NEW WELL	39.93968	-75.19963	ODYSSEY ENVIRONMENTAL SERVICES INC.
623333	PHILADELPHIA	PHILADELPHIA		1201 S 35th St		8/13/2015	NEW WELL	39.93889	-75.19966	ODYSSEY ENVIRONMENTAL SERVICES INC.
623332	PHILADELPHIA	PHILADELPHIA		1201 S 35th St		8/13/2015	NEW WELL	39.93865	-75.20003	ODYSSEY ENVIRONMENTAL SERVICES INC.
604369	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	4500 BALTIMORE AVE		11/1/1994	NEW WELL	39.94886	-75.21297	C S GARBER & SONS INC
604369	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	4500 BALTIMORE AVE		11/1/1994	NEW WELL	39.94886	-75.21297	C S GARBER & SONS INC
604369	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	4500 BALTIMORE AVE		11/1/1994	NEW WELL	39.94886	-75.21297	C S GARBER & SONS INC
604368	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	4500 BALTIMORE AVE		11/1/1994	NEW WELL	39.94886	-75.21297	C S GARBER & SONS INC
604368	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	4500 BALTIMORE AVE		11/1/1994	NEW WELL	39.94886	-75.21297	C S GARBER & SONS INC
604368	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	4500 BALTIMORE AVE		11/1/1994	NEW WELL	39.94886	-75.21297	C S GARBER & SONS INC
604367	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	4500 BALTIMORE AVE		11/1/1994	NEW WELL	39.94886	-75.21297	C S GARBER & SONS INC
604367	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	4500 BALTIMORE AVE		11/1/1994	NEW WELL	39.94886	-75.21297	C S GARBER & SONS INC
604367	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	4500 BALTIMORE AVE		11/1/1994	NEW WELL	39.94886	-75.21297	C S GARBER & SONS INC
604366	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	4500 BALTIMORE AVE		11/1/1994	NEW WELL	39.94885	-75.21297	C S GARBER & SONS INC
604366	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	4500 BALTIMORE AVE		11/1/1994	NEW WELL	39.94885	-75.21297	C S GARBER & SONS INC
604366	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	4500 BALTIMORE AVE		11/1/1994	NEW WELL	39.94885	-75.21297	C S GARBER & SONS INC
604365	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	4500 BALTIMORE AVE		11/1/1994	NEW WELL	39.94886	-75.21297	C S GARBER & SONS INC
604365	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	4500 BALTIMORE AVE		11/1/1994	NEW WELL	39.94886	-75.21297	C S GARBER & SONS INC
604365	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	4500 BALTIMORE AVE		11/1/1994	NEW WELL	39.94886	-75.21297	C S GARBER & SONS INC
510997	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5200 Woodland ave. Philadelphia PA	19143	12/5/2013	NEW WELL	39.9379	-75.21642	ALEXANDER MACPHEE--CVM INDUSTRIES

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1646 South 51st Street  
Philadelphia, Pennsylvania

Pennsylvania										
Well ID	County	Municipality	QuadName	Well Address	Well Zip Code	Date Drilled	Type Of Activity	Latitude	Longitude	Driller
510993	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5200 Woodland Ave. Philadelphia PA	19143	12/5/2013	NEW WELL	39.9379	-75.2162	ALEXANDER MACPHEE--CVM INDUSTRIES
510985	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5200 Woodland Ave. Philadelphia PA	19143	12/4/2013	NEW WELL	39.938	-75.2161	ALEXANDER MACPHEE--CVM INDUSTRIES
510983	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5200 Woodland Ave. Philadelphia PA	19143	12/5/2013	NEW WELL	39.93808	-75.21626	ALEXANDER MACPHEE--CVM INDUSTRIES
510959	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5200 Woodlsnd Ave. Philadelphia	19143	12/4/2013	NEW WELL	39.93807	-75.21633	ALEXANDER MACPHEE--CVM INDUSTRIES
504918	PHILADELPHIA			2751 S. 58th Street Philadelphia PA		2/13/2013	NEW WELL	39.92636	-75.21412	AMERIDRILL INC.
500377	PHILADELPHIA			5245 Lindbergh Blvd Philadelphia	19143	9/14/2010	NEW WELL	39.92537	-75.22092	ODYSSEY ENVIRONMENTAL SERVICES INC.
500376	PHILADELPHIA			5945 Lindbergh Blvd Philadelphia	19143	9/14/2010	NEW WELL	39.92565	-75.22125	ODYSSEY ENVIRONMENTAL SERVICES INC.
500375	PHILADELPHIA			5945 Lindbergh Blvd Philadelphia	19143	9/13/2010	NEW WELL	39.92561	-75.22165	ODYSSEY ENVIRONMENTAL SERVICES INC.
499803	PHILADELPHIA			5945 Lindbergh Blvd Philadelphia PA	19143	12/22/2011	NEW WELL	39.92536	-75.2209	ODYSSEY ENVIRONMENTAL SERVICES INC.
499726	PHILADELPHIA			5945 Lindbergh Blvd Philadelphia PA	19143	10/22/2011	NEW WELL	39.92527	-75.22082	ODYSSEY ENVIRONMENTAL SERVICES INC.
499691	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5945 Lindbergh Blvd Philadelphia pa	19142	12/22/2011	NEW WELL	39.92553	-75.22106	ODYSSEY ENVIRONMENTAL SERVICES INC.
499691	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	5945 Lindbergh Blvd Philadelphia pa	19142	12/22/2011	NEW WELL	39.92553	-75.22106	ODYSSEY ENVIRONMENTAL SERVICES INC.
498763	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	1851 S 34TH ST	19145	2/28/2012	NEW WELL	39.93139	-75.20005	PARRATT-WOLFF INC
496542	PHILADELPHIA	PHILADELPHIA		UNIVERSITY AVENUE		3/31/2009	NEW WELL	39.94667	-75.19917	C S GARBER & SONS INC
496542	PHILADELPHIA	PHILADELPHIA		UNIVERSITY AVENUE		3/31/2009	NEW WELL	39.94667	-75.19917	C S GARBER & SONS INC
490718	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	1851 S 34TH ST	19145	9/16/2011	NEW WELL	39.93015	-75.20083	PARRATT-WOLFF INC
490718	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	1851 S 34TH ST	19145	9/16/2011	NEW WELL	39.93015	-75.20083	PARRATT-WOLFF INC
490716	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	1851 S 34TH ST	19145	9/19/2011	NEW WELL	39.9303	-75.20139	PARRATT-WOLFF INC
490716	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	1851 S 34TH ST	19145	9/19/2011	NEW WELL	39.9303	-75.20139	PARRATT-WOLFF INC
490715	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	1851 S 34TH ST	19145	9/14/2011	NEW WELL	39.9311	-75.20052	PARRATT-WOLFF INC
490715	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	1851 S 34TH ST	19145	9/14/2011	NEW WELL	39.9311	-75.20052	PARRATT-WOLFF INC
490586	PHILADELPHIA	PHILADELPHIA		5364 Lindbergh Blvd Philadelphai	19143	8/30/2011	WELL ABANDONMENT	39.93277	-75.21628	ODYSSEY ENVIRONMENTAL SERVICES INC.
490585	PHILADELPHIA	PHILADELPHIA		5364 Lindbergh Blvd Philadelphai	19143	8/30/2011	WELL ABANDONMENT	39.93254	-75.21639	ODYSSEY ENVIRONMENTAL SERVICES INC.
490584	PHILADELPHIA	PHILADELPHIA		5364 Lindbergh Blvd Philadelphai	19143	8/30/2011	WELL ABANDONMENT	39.93267	-75.21629	ODYSSEY ENVIRONMENTAL SERVICES INC.
490583	PHILADELPHIA	PHILADELPHIA		5364 Lindbergh Blvd Philadelphai	19143	8/30/2011	WELL ABANDONMENT	39.93279	-75.2163	ODYSSEY ENVIRONMENTAL SERVICES INC.
490582	PHILADELPHIA	PHILADELPHIA		5364 Lindbergh Blvd Philadelphai	19143	8/30/2011	WELL ABANDONMENT	39.93264	-75.21636	ODYSSEY ENVIRONMENTAL SERVICES INC.
490581	PHILADELPHIA	PHILADELPHIA		5364 Lindbergh Blvd Philadelphai	19143	8/30/2011	WELL ABANDONMENT	39.93267	-75.21635	ODYSSEY ENVIRONMENTAL SERVICES INC.
490363	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	1851 S 34TH ST	19145	9/15/2011	NEW WELL	39.92997	-75.20042	PARRATT-WOLFF INC
490363	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	1851 S 34TH ST	19145	9/15/2011	NEW WELL	39.92997	-75.20042	PARRATT-WOLFF INC
490280	PHILADELPHIA	PHILADELPHIA		5364 Lindbergh Blvd Philadelphai	19143	8/30/2011	WELL ABANDONMENT	39.93276	-75.21637	ODYSSEY ENVIRONMENTAL SERVICES INC.
490279	PHILADELPHIA	PHILADELPHIA		5364 Lindbergh Blvd Philadelphai	19143	8/30/2011	WELL ABANDONMENT	39.93292	-75.21645	ODYSSEY ENVIRONMENTAL SERVICES INC.
490278	PHILADELPHIA	PHILADELPHIA		5364 Lindbergh Blvd Philadelphai	19143	8/30/2011	WELL ABANDONMENT	39.93285	-75.21667	ODYSSEY ENVIRONMENTAL SERVICES INC.
490277	PHILADELPHIA	PHILADELPHIA		5364 Lindbergh Blvd Philadelphai	19143	8/30/2011	WELL ABANDONMENT	39.9328	-75.21621	ODYSSEY ENVIRONMENTAL SERVICES INC.
490121	PHILADELPHIA	PHILADELPHIA		5364 Lindbergh Blvd Philadelphai	19143	8/30/2011	WELL ABANDONMENT	39.93272	-75.21634	ODYSSEY ENVIRONMENTAL SERVICES INC.
490120	PHILADELPHIA	PHILADELPHIA		5364 Lindbergh Blvd Philadelphai	19143	8/30/2011	WELL ABANDONMENT	39.93274	-75.2164	ODYSSEY ENVIRONMENTAL SERVICES INC.
484591	PHILADELPHIA	PHILADELPHIA		UNIVERSITY AVENUE		3/31/2009	NEW WELL	39.94528	-75.19917	C S GARBER & SONS INC
484591	PHILADELPHIA	PHILADELPHIA		UNIVERSITY AVENUE		3/31/2009	NEW WELL	39.94528	-75.19917	C S GARBER & SONS INC
48395	PHILADELPHIA		PHILADELPHIA			5/31/1995		39.92778	-75.21111	UNKNOWN
48394	PHILADELPHIA		PHILADELPHIA			11/5/1981		39.9275	-75.20667	UNKNOWN
48393	PHILADELPHIA		PHILADELPHIA			5/12/1994		39.92722	-75.20278	UNKNOWN
48392	PHILADELPHIA		PHILADELPHIA			5/11/1994		39.92722	-75.20222	UNKNOWN
48391	PHILADELPHIA		PHILADELPHIA			5/12/1994		39.92722	-75.20167	UNKNOWN
48390	PHILADELPHIA		PHILADELPHIA			5/10/1994		39.92694	-75.20333	UNKNOWN
48389	PHILADELPHIA		PHILADELPHIA			6/2/1995		39.92694	-75.20222	UNKNOWN
48388	PHILADELPHIA		PHILADELPHIA			6/5/1995		39.92694	-75.20139	UNKNOWN
48387	PHILADELPHIA		PHILADELPHIA			5/13/1994		39.92694	-75.20111	UNKNOWN
48386	PHILADELPHIA		PHILADELPHIA			6/5/1995		39.92694	-75.20083	UNKNOWN
48385	PHILADELPHIA		PHILADELPHIA			5/11/1994		39.92694	-75.20056	UNKNOWN
48384	PHILADELPHIA		PHILADELPHIA			6/1/1995		39.92667	-75.21167	
48383	PHILADELPHIA		PHILADELPHIA					39.92361	-75.20028	
48382	PHILADELPHIA		PHILADELPHIA			10/11/1994		39.92333	-75.20083	UNKNOWN
48381	PHILADELPHIA		PHILADELPHIA			5/19/1994		39.92306	-75.20222	UNKNOWN
48380	PHILADELPHIA		PHILADELPHIA			10/19/1994		39.92306	-75.20167	UNKNOWN
48379	PHILADELPHIA		PHILADELPHIA			5/18/1994		39.92278	-75.20333	UNKNOWN
48378	PHILADELPHIA		PHILADELPHIA			5/17/1994		39.92278	-75.20278	UNKNOWN
48376	PHILADELPHIA		PHILADELPHIA			6/1/1995		39.92194	-75.20778	
48204	PHILADELPHIA		PHILADELPHIA			2/25/1994		39.92806	-75.21028	EMPIRE SOILS INVESTIGATIONS INC
478098	PHILADELPHIA	PHILADELPHIA		UNIVERSITY AVENUE		10/29/2008	NEW WELL	39.94556	-75.19889	C S GARBER & SONS INC
478098	PHILADELPHIA	PHILADELPHIA		UNIVERSITY AVENUE		10/29/2008	NEW WELL	39.94556	-75.19889	C S GARBER & SONS INC
477824	PHILADELPHIA	PHILADELPHIA		5201 Grays Ave Philadelphia	19143	4/1/2011	WELL ABANDONMENT	39.93593	-75.21456	ODYSSEY ENVIRONMENTAL SERVICES INC.
477823	PHILADELPHIA	PHILADELPHIA		5201 Grays Ave Philadelphia	19143	4/1/2011	WELL ABANDONMENT	39.93483	-75.21365	ODYSSEY ENVIRONMENTAL SERVICES INC.
477821	PHILADELPHIA	PHILADELPHIA		5201 Grays Ave Philadelphia	19143	4/1/2011	WELL ABANDONMENT	39.93588	-75.2148	ODYSSEY ENVIRONMENTAL SERVICES INC.

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477819	PHILADELPHIA	PHILADELPHIA		5201 Grays Ave Philadelphia	19143	4/1/2011	WELL ABANDONMENT	39.93598	-75.214	ODYSSEY ENVIRONMENTAL SERVICES INC.
477745	PHILADELPHIA	PHILADELPHIA		30th Street & Grays Ferry Ave. Phila. Pa		2/9/2011	NEW WELL	39.9396	-75.1916	B. L. MYERS BROS OF MDLLC
477165	PHILADELPHIA	PHILADELPHIA		5201 Grays Ave Philadelphia	19143	4/1/2011	WELL ABANDONMENT	39.93556	-75.21501	ODYSSEY ENVIRONMENTAL SERVICES INC.
475994	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	1851 S 34TH ST	19145	9/13/2011	NEW WELL	39.93008	-75.20006	PARRATT-WOLFF INC
475994	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	1851 S 34TH ST	19145	9/13/2011	NEW WELL	39.93008	-75.20006	PARRATT-WOLFF INC
475993	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	1851 S 34TH ST	19145	9/14/2011	NEW WELL	39.93133	-75.2003	PARRATT-WOLFF INC
475993	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	1851 S 34TH ST	19145	9/14/2011	NEW WELL	39.93133	-75.2003	PARRATT-WOLFF INC
475283	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	1851 S 34TH ST.	19145	5/23/2011	NEW WELL	39.93166	-75.20069	EICHELBERGERS INC.
475283	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	1851 S 34TH ST.	19145	5/23/2011	NEW WELL	39.93166	-75.20069	EICHELBERGERS INC.
475171	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	1851 S 34TH ST.	19145	5/23/2011	NEW WELL	39.93162	-75.20051	EICHELBERGERS INC.
475171	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	1851 S 34TH ST.	19145	5/23/2011	NEW WELL	39.93162	-75.20051	EICHELBERGERS INC.
475170	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	1851 S 34TH ST.	19145	5/23/2011	NEW WELL	39.93143	-75.20034	EICHELBERGERS INC.
475170	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	1851 S 34TH ST.	19145	5/23/2011	NEW WELL	39.93143	-75.20034	EICHELBERGERS INC.
475169	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	1851 S 34TH ST.	19145	5/23/2011	NEW WELL	39.93176	-75.20069	EICHELBERGERS INC.
475169	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	1851 S 34TH ST.	19145	5/23/2011	NEW WELL	39.93176	-75.20069	EICHELBERGERS INC.
475168	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	1851 S 34TH ST.	19145	5/23/2011	NEW WELL	39.93166	-75.20069	EICHELBERGERS INC.
475168	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	1851 S 34TH ST.	19145	5/23/2011	NEW WELL	39.93166	-75.20069	EICHELBERGERS INC.
473933	PHILADELPHIA	PHILADELPHIA		1630	19143	11/21/2010	NEW WELL	39.93655	-75.21016	ENVIRONMENTAL PROBING INVESTIGATIONS INC
424578	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	REFINERY AREA - OFF S 35TH ST		6/13/2008	NEW WELL	39.93139	-75.20306	PARRATT-WOLFF INC
424577	PHILADELPHIA	PHILADELPHIA		REFINERY AREA		5/13/2008	NEW WELL	39.92611	-75.20778	PARRATT-WOLFF INC
424576	PHILADELPHIA	PHILADELPHIA		REFINERY AREA		6/17/2008	NEW WELL	39.92417	-75.20028	PARRATT-WOLFF INC
424572	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	REFINERY AREA - W OF VARE AVE		6/20/2008	NEW WELL	39.92833	-75.20194	PARRATT-WOLFF INC
424571	PHILADELPHIA	PHILADELPHIA		REFINERY AREA		6/18/2008	NEW WELL	39.9275	-75.20111	PARRATT-WOLFF INC
424570	PHILADELPHIA	PHILADELPHIA		REFINERY AREA		6/18/2008	NEW WELL	39.92833	-75.20111	PARRATT-WOLFF INC
424565	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	REFINERY AREA		7/1/2008	NEW WELL	39.92361	-75.20167	PARRATT-WOLFF INC
424514	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	REFINERY AREA - OFF MOORE ST		6/19/2008	NEW WELL	39.9325	-75.20306	PARRATT-WOLFF INC
424513	PHILADELPHIA	PHILADELPHIA		REFINERY AREA		6/5/2008	NEW WELL	39.92833	-75.19972	PARRATT-WOLFF INC
424512	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	REFINERY AREA		6/5/2008	NEW WELL	39.92861	-75.20194	PARRATT-WOLFF INC
424511	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	REFINERY AREA		6/4/2008	NEW WELL	39.92667	-75.2025	PARRATT-WOLFF INC
424510	PHILADELPHIA	PHILADELPHIA		REFINERY AREA - OFF MAIDEN LANE		6/2/2008	NEW WELL	39.93	-75.20028	PARRATT-WOLFF INC
424509	PHILADELPHIA	PHILADELPHIA		REFINERY AREA		5/23/2008	NEW WELL	39.92667	-75.20167	PARRATT-WOLFF INC
424508	PHILADELPHIA	PHILADELPHIA		REFINERY AREA		5/28/2008	NEW WELL	39.92361	-75.20278	PARRATT-WOLFF INC
424507	PHILADELPHIA	PHILADELPHIA		REFINERY AREA		5/29/2008	NEW WELL	39.9275	-75.2	PARRATT-WOLFF INC
424506	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	REFINERY AREA		5/29/2008	NEW WELL	39.92528	-75.20167	PARRATT-WOLFF INC
424505	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	REFINERY AREA		5/29/2008	NEW WELL	39.92806	-75.20222	PARRATT-WOLFF INC
424503	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	REFINERY AREA		5/13/2008	NEW WELL	39.92472	-75.20667	PARRATT-WOLFF INC
424490	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	REFINERY AREA		7/9/2008	NEW WELL	39.92722	-75.20722	PARRATT-WOLFF INC
424487	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	REFINERY AREA		6/16/2008	NEW WELL	39.92889	-75.19917	PARRATT-WOLFF INC
424479	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	REFINERY AREA		6/9/2008	NEW WELL	39.92778	-75.20056	PARRATT-WOLFF INC
424478	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	REFINERY AREA - ALONG RR W OF VARE AVE		6/6/2008	NEW WELL	39.92611	-75.20139	PARRATT-WOLFF INC
424477	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	REFINERY AREA		5/22/2008	NEW WELL	39.92639	-75.19889	PARRATT-WOLFF INC
424476	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	REFINERY AREA		5/21/2008	NEW WELL	39.925	-75.1975	PARRATT-WOLFF INC
424475	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	REFINERY AREA		5/21/2008	NEW WELL	39.925	-75.19639	PARRATT-WOLFF INC
424474	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	REFINERY AREA		5/21/2008	NEW WELL	39.92583	-75.20139	PARRATT-WOLFF INC
424473	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	REFINERY AREA		5/20/2008	NEW WELL	39.92417	-75.20139	PARRATT-WOLFF INC
424472	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	REFINERY AREA		5/20/2008	NEW WELL	39.925	-75.20333	PARRATT-WOLFF INC
424471	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	REFINERY AREA		5/16/2008	NEW WELL	39.92306	-75.20389	PARRATT-WOLFF INC
424470	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	REFINERY AREA		5/15/2008	NEW WELL	39.92361	-75.21	PARRATT-WOLFF INC
424469	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	REFINERY AREA		5/15/2008	NEW WELL	39.92278	-75.20972	PARRATT-WOLFF INC
424468	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	REFINERY AREA		5/15/2008	NEW WELL	39.92194	-75.20944	PARRATT-WOLFF INC
424467	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA	REFINERY AREA		5/15/2008	NEW WELL	39.92528	-75.20417	PARRATT-WOLFF INC
424466	PHILADELPHIA	PHILADELPHIA		REFINERY AREA		5/14/2008	NEW WELL	39.92694	-75.21083	PARRATT-WOLFF INC
424462	PHILADELPHIA	PHILADELPHIA		REFINERY AREA		5/14/2008	NEW WELL	39.92778	-75.20972	PARRATT-WOLFF INC
424461	PHILADELPHIA	PHILADELPHIA		REFINERY AREA		5/14/2008	NEW WELL	39.92722	-75.2075	PARRATT-WOLFF INC
424457	PHILADELPHIA	PHILADELPHIA		REFINERY AREA		6/18/2008	NEW WELL	39.92472	-75.20917	PARRATT-WOLFF INC
30470	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			1/1/1946		39.93972	-75.19167	ARTESIAN WELL DRLG CO
30470	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			1/1/1946		39.93972	-75.19167	ARTESIAN WELL DRLG CO
30468	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			7/30/1974		39.93944	-75.19944	THOMAS KEYES INC.
30468	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			7/30/1974		39.93944	-75.19944	THOMAS KEYES INC.
30467	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			1/1/1934		39.93944	-75.19139	ARTESIAN WELL DRLG CO
30462	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			1/1/1904		39.93722	-75.20389	RIDPATH AND POTTER COMPANY
30460	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			5/27/1936		39.93667	-75.19917	RIDPATH AND POTTER COMPANY

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Well ID	County	Municipality	QuadName	Well Address	Well Zip Code	Date Drilled	Type Of Activity	Latitude	Longitude	Driller	
30446	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			1/1/1921		39.92806	-75.20306	UNKNOWN	
30446	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			1/1/1921		39.92806	-75.20306	UNKNOWN	
30446	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			1/1/1921		39.92806	-75.20306	UNKNOWN	
30444	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			7/30/1948		39.92667	-75.20333	RIDPATH AND POTTER COMPANY	
30444	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			7/30/1948		39.92667	-75.20333	RIDPATH AND POTTER COMPANY	
30444	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			7/30/1948		39.92667	-75.20333	RIDPATH AND POTTER COMPANY	
30444	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			7/30/1948		39.92667	-75.20333	RIDPATH AND POTTER COMPANY	
30443	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			1/1/1904		39.92639	-75.20389	UNKNOWN	
30443	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			1/1/1904		39.92639	-75.20389	UNKNOWN	
30439	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			2/15/1946		39.92583	-75.2025	RIDPATH AND POTTER COMPANY	
30439	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			2/15/1946		39.92583	-75.2025	RIDPATH AND POTTER COMPANY	
30439	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			2/15/1946		39.92583	-75.2025	RIDPATH AND POTTER COMPANY	
29937	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			1/1/1923		39.94417	-75.20667	THOMAS B HARPER	
29937	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			1/1/1923		39.94417	-75.20667	JOHN RULON	
29930	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			1/1/1914		39.94222	-75.20444	THOMAS B HARPER	
29927	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			1/1/1919		39.94194	-75.20472	THOMAS B HARPER	
29926	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			1/1/1919		39.94167	-75.20472	THOMAS B HARPER	
29925	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			2/1/1931		39.94167	-75.2025	JOHN RULON	
29918	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			5/1/1930		39.93944	-75.19139	JOHN RULON	
29918	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			5/1/1930		39.93944	-75.19139	JOHN RULON	
29918	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			5/1/1930		39.93944	-75.19139	JOHN RULON	
29918	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			5/1/1930		39.93944	-75.19139	JOHN RULON	
29915	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			11/25/1949		39.93833	-75.20389	KOHL BROS. INC.	
29905	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			4/24/1951		39.93722	-75.20083	RIDPATH AND POTTER COMPANY	
29904	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			1/1/1934		39.93694	-75.19833	ARTESIAN WELL DRLG CO	
29901	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			1/1/1905		39.93611	-75.20694	QUINN & HERRON	
29900	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			8/3/1940		39.93583	-75.19056	LAYNE CHRISTENSEN COMPANY	
29900	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			8/3/1940		39.93583	-75.19056	LAYNE CHRISTENSEN COMPANY	
29898	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			1/1/1902		39.93556	-75.21222	THOMAS B HARPER	
29896	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			1/1/1906		39.93528	-75.2125	THOMAS B HARPER	
29895	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			01/01/1897		39.935	-75.19917	THOMAS B HARPER	
29877	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			1/1/1977		39.92722	-75.20667	UNKNOWN	
29876	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA					39.92722	-75.20306	UNKNOWN	
29875	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			7/1/1979		39.92694	-75.205	UNKNOWN	
29865	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			1/1/1921		39.925	-75.20667	UNKNOWN	
29865	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			1/1/1921		39.925	-75.20667	UNKNOWN	
29863	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA					39.92472	-75.20639	UNKNOWN	
29863	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA					39.92472	-75.20639	UNKNOWN	
29862	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA					39.92472	-75.19889	UNKNOWN	
29860	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			1/1/1933		39.92444	-75.20583	UNKNOWN	
29857	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA					39.92389	-75.20278	UNKNOWN	
29855	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			10/24/1947		39.92333	-75.21972	RIDPATH AND POTTER COMPANY	
136068	PHILADELPHIA	PHILADELPHIA	PHILADELPHIA			7/30/1974	NEW WELL	39.93917	-75.19917	THOMAS KEYES INC.	

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Pennsylvania Well ID	Original Owner	Well Use	Water Use	Well Depth (ft)	Top Of Casing (ft)	Bottom Of Casing (ft)	Casing Diameter (in)	Depth To Bedrock (ft)	Bedrock Not Reached	Well Yield (gpm)	Static Water Level (ft)	Water Level After Yield Test (ft)	Length Of Test (min)	YieldMeasurementMethod
696276	(FMR) BIL-DRY CORP	MONITORING	OTHER	40				9	False	0.9				VOLUMETRIC WATCH & BUCKET
696275	(FMR) BIL-DRY CORP	MONITORING	OTHER	35				9	False					
696275	(FMR) BIL-DRY CORP	WITHDRAWAL	DOMESTIC	35				9	False					
696274	(FMR) BIL-DRY CORP	WITHDRAWAL	DOMESTIC	38				9	False					
696274	(FMR) BIL-DRY CORP	MONITORING	OTHER	38				9	False					
693848	PES	MONITORING		28	0	18	4		False					
692752	JASSI ENTERPRISES	ABANDONED		25					False					
692744	JASSI ENTERPRISES	ABANDONED		30					False					
692724	JASSI ENTERPRISES	ABANDONED		30					False					
692723	JASSI ENTERPRISES	ABANDONED		25					False					
692721	JASSI ENTERPRISES	ABANDONED		25					False					
692704	JASSI ENTERPRISES	ABANDONED		30					False					
692703	JASSI ENTERPRISES	ABANDONED		30					False					
692701	JASSI ENTERPRISES	ABANDONED		25					False					
692691	JASSI ENTERPRISES	ABANDONED		30					False					
692688	JASSI ENTERPRISES	ABANDONED		30					False					
692687	JASSI ENTERPRISES	ABANDONED		25					False					
692686	JASSI ENTERPRISES	ABANDONED		25					False					
682795	Evergreen	MONITORING		63	0	48	4		False					
681250	FMR ATLANTIC - SUNOCO GAS STATION	ABANDONED		15					False					
681250	FMR ATLANTIC - SUNOCO GAS STATION	MONITORING	OTHER	15					False					
681244	FMR ATLANTIC - SUNOCO GAS STATION	ABANDONED		22					False					
681244	FMR ATLANTIC - SUNOCO GAS STATION	MONITORING	OTHER	22					False					
681230	FMR ATLANTIC - SUNOCO GAS STATION	ABANDONED		15					False					
681230	FMR ATLANTIC - SUNOCO GAS STATION	MONITORING	OTHER	15					False					
681228	FMR ATLANTIC - SUNOCO GAS STATION	ABANDONED		19					False					
681228	FMR ATLANTIC - SUNOCO GAS STATION	MONITORING	OTHER	19					False					
681211	FMR ATLANTIC - SUNOCO GAS STATION	ABANDONED		25					False					
681211	FMR ATLANTIC - SUNOCO GAS STATION	MONITORING	OTHER	25					False					
681186	FMR ATLANTIC - SUNOCO GAS STATION	ABANDONED		15					False					
681186	FMR ATLANTIC - SUNOCO GAS STATION	MONITORING	OTHER	15					False					
681178	FMR ATLANTIC - SUNOCO GAS STATION	ABANDONED		15					False					
681178	FMR ATLANTIC - SUNOCO GAS STATION	MONITORING	OTHER	15					False					
681156	FMR ATLANTIC - SUNOCO GAS STATION	ABANDONED		15					False					
681156	FMR ATLANTIC - SUNOCO GAS STATION	MONITORING	OTHER	15					False					
681155	FMR ATLANTIC - SUNOCO GAS STATION	MONITORING	OTHER	15					False					
681155	FMR ATLANTIC - SUNOCO GAS STATION	ABANDONED		15					False					
681152	FMR ATLANTIC - SUNOCO GAS STATION	ABANDONED		23					False					
681152	FMR ATLANTIC - SUNOCO GAS STATION	MONITORING	OTHER	23					False					
681146	FMR ATLANTIC - SUNOCO GAS STATION	ABANDONED		16					False					
681146	FMR ATLANTIC - SUNOCO GAS STATION	MONITORING	OTHER	16					False					
681118	FMR ATLANTIC - SUNOCO GAS STATION	MONITORING	OTHER	26					False					
681118	FMR ATLANTIC - SUNOCO GAS STATION	ABANDONED		26					False					
680920	PES	MONITORING		30	0	20	4		False					
680919	PES	MONITORING		30	0	20	4		False					
680917	PES	MONITORING		20	0	10	4		False					
680684	PES	MONITORING		33	0	13	6		False					
680683	PES	MONITORING		30	0	10	4		False					
680667	PES	MONITORING		35	0	15	4		False					
680666	PES	MONITORING		33	0	13	6		False					
680474	PES	MONITORING		35	0	15	6		False					
680416	PES	MONITORING		35	0	15	6		False					
680415	PES	MONITORING		30	0	10	6		False					
680387	PES	MONITORING		35	0	15	6		False					
680042	PES	MONITORING		24	0	4	6		False					
680041	PES	MONITORING		25	0	5	6		False					
680040	PES	MONITORING		30	0	10	6		False					
680039	PES	MONITORING		30	0	10	6		False					
679742	PES	MONITORING		35	0	15	6		False					
679715	PES	MONITORING		35	0	15	6		False					
679712	PES	MONITORING		35	0	15	6		False					
679701	PES	MONITORING		33	0	13	6		False					

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679605	PES	MONITORING		37.5	0	12.5	6		False					
679576	PES	MONITORING		40	0	15	6		False					
679575	PES	MONITORING		35.5	0	15.5	6		False					
679572	PES	MONITORING		35.5	0	15.5	6		False					
679549	PES	MONITORING		40	0	15	6		False					
679538	PES	MONITORING		40	0	15	6		False					
679537	PES	MONITORING		40	0	15	6		False					
679309	Woodland Gulf	ABANDONED	OTHER	5	0	5	1		False					
679301	Woodland Gulf	ABANDONED	OTHER	24	0	24	2		False					
679296	Woodland Gulf	ABANDONED	OTHER	5	0	5	1		False					
679295	Woodland Gulf	ABANDONED	OTHER	24	0	24	2		False					
679288	Woodland Gulf	ABANDONED			0	23	2		False					
679287	Woodland Gulf	ABANDONED			0	23	2		False					
679286	Woodland Gulf	ABANDONED			0	20	4		False					
679285	Woodland Gulf	ABANDONED	OTHER	20	0	20	4		False					
679284	Woodland Gulf	ABANDONED	OTHER	20	0	20	4		False					
679279	Woodland Gulf	ABANDONED	OTHER	5	0	5	1		False					
679278	Woodland Gulf	ABANDONED	OTHER	5	0	5	1		False					
679271	Woodland Gulf	ABANDONED			0	20	4		False					
679265	Woodland Gulf	ABANDONED	OTHER	5	0	5	1		False					
679264	Woodland Gulf	ABANDONED	OTHER	5	0	5	1		False					
679263	Woodland Gulf	ABANDONED	OTHER	5	0	5	1		False					
679262	Woodland Gulf	ABANDONED	OTHER	24	0	24	2		False					
679254	PES	MONITORING		40	0	15	6		False					
679253	PES	MONITORING		40	0	15	6		False					
679252	PES	MONITORING		40	0	15	6		False					
679133	Woodland Gulf	ABANDONED			0	20	2		False					
679065	PES	MONITORING		40	0	15	6		False					
679015	PES	MONITORING		40	0	15	6		False					
678983	PES	MONITORING		40	0	15	6		False					
678982	PES	MONITORING		40	0	15	6		False					
678981	PES	MONITORING		40	0	15	6		False					
673122	PHILA TROLLEYWORKS	MONITORING	OTHER	25					True		15			
673122	PHILA TROLLEYWORKS	WITHDRAWAL	DOMESTIC	25					True		15			
673121	PHILA TROLLEYWORKS	WITHDRAWAL	DOMESTIC	22					False		15			
673121	PHILA TROLLEYWORKS	MONITORING	OTHER	22					False		15			
668978	FMR SUNOCO-CITGO	ABANDONED							False					
668978	FMR SUNOCO-CITGO	ABANDONED	OTHER						False					
668977	FMR SUNOCO-CITGO	ABANDONED							False					
668977	FMR SUNOCO-CITGO	ABANDONED	OTHER						False					
668884	FMR SUNOCO-CITGO	ABANDONED							False					
668884	FMR SUNOCO-CITGO	ABANDONED	OTHER						False					
668866	FMR SUNOCO-CITGO	ABANDONED							False					
668866	FMR SUNOCO-CITGO	ABANDONED	OTHER						False					
668849	FMR SUNOCO-CITGO	ABANDONED							False					
668849	FMR SUNOCO-CITGO	ABANDONED	OTHER						False					
668848	FMR SUNOCO-CITGO	ABANDONED			0	0	0		False					

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Pennsylvania Well ID	Original Owner	Well Use	Water Use	Well Depth (ft)	Top Of Casing (ft)	Bottom Of Casing (ft)	Casing Diameter (in)	Depth To Bedrock (ft)	Bedrock Not Reached	Well Yield (gpm)	Static Water Level (ft)	Water Level After Yield Test (ft)	Length Of Test (min)	YieldMeasurementMethod
668848	FMR SUNOCO-CITGO	ABANDONED	OTHER		0	0	0		False					
668841	FMR SUNOCO-CITGO	ABANDONED							False					
668841	FMR SUNOCO-CITGO	ABANDONED	OTHER						False					
668755	FMR SUNOCO-CITGO	ABANDONED							False					
668755	FMR SUNOCO-CITGO	ABANDONED	OTHER						False					
668752	FMR SUNOCO-CITGO	ABANDONED							False					
668752	FMR SUNOCO-CITGO	MONITORING	OTHER						False					
653657	Delaware Valley Recycling Inc	MONITORING	OTHER	35	0	18	4		False		17.47			
653650	Delaware Valley Recycling Inc	MONITORING	OTHER	45	0	28	4		False		20			
653649	Delaware Valley Recycling Inc	MONITORING	OTHER	43	0	26	4		False		28			
653648	Delaware Valley Recycling Inc	MONITORING	OTHER	20	0	8	4		False		14.5			
653505	Evergreen Resources Group LLC		OTHER	38	15	23	6		True		23			
653505	Evergreen Resources Group LLC		OTHER	38	5	15	6		True		23			
653505	Evergreen Resources Group LLC		OTHER	38	0	5	6		True		23			
648797	Bajrang Fuels Inc.	MONITORING		21	0	6	2	1	False					
643401	Evergreen Resources Group LLC		OTHER	66	0	51	4		True		8			
643401	Evergreen Resources Group LLC		OTHER	66	51	54	4		True		8			
643400	Evergreen Resources Group LLC		OTHER	65	0	50	4		True		12			
643400	Evergreen Resources Group LLC		OTHER	65	50	53	4		True		12			
643399	Evergreen Resources Group LLC		OTHER	80.3	0	67	4		True		14			
643399	Evergreen Resources Group LLC		OTHER	80.3	67	70	4		True		14			
642905	Evergreen Resources Group LLC	MONITORING	OTHER	14	0	1	4		True		10			
642905	Evergreen Resources Group LLC	MONITORING	OTHER	14	1	8	4		True		10			
642893	Evergreen Resources Group LLC	MONITORING	OTHER	33	0	1	4		True					
642893	Evergreen Resources Group LLC	MONITORING	OTHER	33	1	22	4		True					
642823	Evergreen Resources Group LLC	MONITORING	OTHER	16	0	1	4		True		10			
642823	Evergreen Resources Group LLC	MONITORING	OTHER	16	1	6	4		True		10			
642822	Evergreen Resources Group LLC		OTHER	25	1	6	4		False					
642822	Evergreen Resources Group LLC		OTHER	25	0	1	4		False					
642821	Evergreen Resources Group LLC	MONITORING	OTHER	25	1	8	4		True		8			
642821	Evergreen Resources Group LLC	MONITORING	OTHER	25	0	1	4		True		8			
642820	Evergreen Resources Group LLC	MONITORING	OTHER	37	14	18	4		True		23			
642820	Evergreen Resources Group LLC	MONITORING	OTHER	37	0	1	4		True		23			
642820	Evergreen Resources Group LLC	MONITORING	OTHER	37	1	14	4		True		23			
623377	Philadelphia Authority for Industrial Development	MONITORING		26.5	0	16.5	2		False					
623376	Philadelphia Authority for Industrial Development	MONITORING		25	0	15	2		False					
623375	Philadelphia Authority for Industrial Development	MONITORING		25	0	15	2		False					
623333	Philadelphia Authority for Industrial Development	MONITORING		27.5	0	17.5	2		False					
623332	Philadelphia Authority for Industrial Development	MONITORING		30	0	20	2		False					
604369	FMR Atlantic - SUNOCO	UNKNOWN	UNKNOWN	15					False					
604369	FMR Atlantic - SUNOCO	MONITORING	OTHER	15					False					
604369	FMR Atlantic - SUNOCO	WITHDRAWAL	DOMESTIC	15					False					
604368	FMR Atlantic - SUNOCO	UNKNOWN	UNKNOWN	15					False					
604368	FMR Atlantic - SUNOCO	WITHDRAWAL	DOMESTIC	15					False					
604368	FMR Atlantic - SUNOCO	MONITORING	OTHER	15					False					
604367	FMR Atlantic - SUNOCO	WITHDRAWAL	DOMESTIC						False					
604367	FMR Atlantic - SUNOCO	MONITORING	OTHER						False					
604367	FMR Atlantic - SUNOCO	UNKNOWN	UNKNOWN						False					
604366	FMR Atlantic - SUNOCO	UNKNOWN	UNKNOWN						False					
604366	FMR Atlantic - SUNOCO	WITHDRAWAL	DOMESTIC						False					
604366	FMR Atlantic - SUNOCO	MONITORING	OTHER						False					
604365	FMR ATLANTIC - SUNOCO	UNKNOWN	UNKNOWN						False					
604365	FMR ATLANTIC - SUNOCO	WITHDRAWAL	DOMESTIC						False					
604365	FMR ATLANTIC - SUNOCO	MONITORING	OTHER						False					
510997	Woodland Gulf	UNUSED	UNUSED	24	0	9	2	12	False	1	12	12		ESTIMATED

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Pennsylvania Well ID	Original Owner	Well Use	Water Use	Well Depth (ft)	Top Of Casing (ft)	Bottom Of Casing (ft)	Casing Diameter (in)	Depth To Bedrock (ft)	Bedrock Not Reached	Well Yield (gpm)	Static Water Level (ft)	Water Level After Yield Test (ft)	Length Of Test (min)	YieldMeasurementMethod
510993	Woodland Gulf	UNUSED	UNUSED	23	0	8	2	11	False	1	12	12		ESTIMATED
510985	Woodland Gulf	UNUSED	UNUSED	24	0	9	2	11	False	1	11	11		ESTIMATED
510983	Woodland Gulf	TEST	UNUSED	23	0	8	2	22	False		12	12		ESTIMATED
510959	Woodland Gulf	TEST	UNUSED	23	0	8	2	13	False	1	11	11		ESTIMATED
504918	Philadelphia Industrial Development Corp.	MONITORING		15	0	5	4		True					
500377	Saini	MONITORING		25	0	5	2		True					
500376	Saini	WITHDRAWAL		25	0	5	2		True					
500375	Saini	MONITORING		25	0	5	2		True					
499803	Saini	MONITORING		30	0	5	2		True					
499726	Saini	MONITORING		30	0	5	2		True					
499691	Saini	MONITORING		30	0	5	2		True					
499691	Saini	MONITORING	INDUSTRIAL	30	0	5	2		True					
498763	Verizon	MONITORING	OTHER	34	0	24	2		True					
496542	PHILADELPHIA V.A. HOSPITAL	MONITORING		30	0	5	2	5	False	0.1	13			
496542	PHILADELPHIA V.A. HOSPITAL	MONITORING		30				5	False	0.1	13			
490718	VERIZON PA LLC - S DISTRICT WORK CTR	MONITORING		33	0	23	2		True		23			
490718	VERIZON PA LLC - S DISTRICT WORK CTR	MONITORING	OTHER	33	0	23	2		True		23			
490716	VERIZON PA LLC - S DISTRICT WORK CTR 2	MONITORING		23	0	13	2		True		15			
490716	VERIZON PA LLC - S DISTRICT WORK CTR 2	MONITORING	OTHER	23	0	13	2		True		15			
490715	VERIZON PA LLC - S DISTRICT WORK CTR 2	MONITORING		34	0	24	2		True		28			
490715	VERIZON PA LLC - S DISTRICT WORK CTR 2	MONITORING	OTHER	34	0	24	2		True		28			
490586	BP	MONITORING		36					False					
490585	BP	MONITORING		28					False					
490584	BP	MONITORING		28					False					
490583	FMR BP	MONITORING		28					False					
490582	BP	MONITORING		28					False					
490581	BP	MONITORING		28					False					
490363	VERIZON PA LLC - S DISTRICT WORK CTR 2	MONITORING		33	0	23	2		True		25			
490363	VERIZON PA LLC - S DISTRICT WORK CTR 2	MONITORING	OTHER	33	0	23	2		True		25			
490280	BP	MONITORING		35					False					
490279	FMR BP	MONITORING		55					False					
490278	BP	MONITORING		45					False					
490277	BP	MONITORING		48					False					
490121	FMR BP	MONITORING		28					False					
490120	BP	MONITORING		28					False					
484591	PHILADELPHIA V.A. HOSPITAL	MONITORING		30				7	False	0.1	7			
484591	PHILADELPHIA V.A. HOSPITAL	MONITORING		30	0	5	2	7	False	0.1	7			
48395	SUN COMPANY	WITHDRAWAL	OTHER	15					False	1	5	16	168	ESTIMATED
48394	SUN COMPANY	WITHDRAWAL	OTHER	25					False	9	12	20	168	REPORTED METHOD NOT KNOWN
48393	SUN COMPANY	WITHDRAWAL	OTHER	29					False	0.5	15	24	168	REPORTED METHOD NOT KNOWN
48392	SUN COMPANY	WITHDRAWAL	OTHER	29					False	2.3	15	24	168	REPORTED METHOD NOT KNOWN
48391	SUN COMPANY	WITHDRAWAL	OTHER	29					False	0.4	15	24	168	REPORTED METHOD NOT KNOWN
48390	SUN COMPANY	WITHDRAWAL	OTHER	26					False	0.8	15	24	168	REPORTED METHOD NOT KNOWN
48389	SUN COMPANY	WITHDRAWAL	OTHER	28	0	13	6		False	0.1	15	24	168	REPORTED METHOD NOT KNOWN
48388	SUN COMPANY	WITHDRAWAL	OTHER	28	0	13	6		False	0.8	15	24	168	REPORTED METHOD NOT KNOWN
48387	SUN COMPANY	WITHDRAWAL	OTHER	31					False	0.5	15	24		REPORTED METHOD NOT KNOWN
48386	SUN COMPANY	WITHDRAWAL	OTHER	28	0	13	6		False	0.5	15	24	168	REPORTED METHOD NOT KNOWN
48385	SUN COMPANY	WITHDRAWAL	OTHER	31					False	1.7	15	24	168	REPORTED METHOD NOT KNOWN
48384	SUN COMPANY	WITHDRAWAL	OTHER						False	10	9	14	168	ESTIMATED
48383	SUN COMPANY	WITHDRAWAL	OTHER						False	5	22	25	168	ESTIMATED
48382	SUN COMPANY	WITHDRAWAL	OTHER	50					False	6.5	22	27	168	ESTIMATED
48381	SUN COMPANY	WITHDRAWAL	OTHER	37					False	1.8	22	29	168	REPORTED METHOD NOT KNOWN
48380	SUN COMPANY	WITHDRAWAL	OTHER	35					False	2	22	27	168	ESTIMATED
48379	SUN COMPANY	WITHDRAWAL	OTHER	35					False	7.5	22	27	168	REPORTED METHOD NOT KNOWN
48378	SUN COMPANY	WITHDRAWAL	OTHER	34					False	1	22	29	168	REPORTED METHOD NOT KNOWN
48376	SUN COMPANY	WITHDRAWAL	OTHER						False	20	5	10	168	ESTIMATED
48204	SUN COMPANY	OBSERVATION	UNUSED	85	0	75	2		False					
478098	PHILADELPHIA V.A. HOSPITAL	MONITORING		30	0	5	2	9	False	0.75	22			ESTIMATED
478098	PHILADELPHIA V.A. HOSPITAL	MONITORING		30				9	False	0.75	22			ESTIMATED
477824	M A Bruder & Sons	MONITORING		33					False					
477823	M A Bruder & Sons	MONITORING		26					False					
477821	M A Bruder & Sons	MONITORING		15					False					

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477819	M A Bruder & Sons	MONITORING		40					False					
477745	The Grays Ferry Shopping Center	MONITORING		36	0	16	2		False					
477165	M A Bruder & Sons	MONITORING		31					False					
475994	VERIZON PA LLC - S DISTRICT WORK CTR 2	MONITORING		33	0	23	2		True		22			
475994	VERIZON PA LLC - S DISTRICT WORK CTR 2	MONITORING	OTHER	33	0	23	2		True		22			
475993	VERIZON PA LLC - SOUTH DISTRICT WORK CTR 2	MONITORING		33	0	23	2		True		22			
475993	VERIZON PA LLC - SOUTH DISTRICT WORK CTR 2	MONITORING	OTHER	33	0	23	2		True		22			
475283	VERIZON PA LLC - S DISTRICT WORK CTR 2	MONITORING	OTHER	33	0	30	2		True					
475283	VERIZON PA LLC - S DISTRICT WORK CTR 2	WITHDRAWAL	UNUSED	33	0	30	2		True					
475171	VERIZON PA LLC - S DISTRICT WORK CTR 2	MONITORING	OTHER	33	0	30	2		True					
475171	VERIZON PA LLC - S DISTRICT WORK CTR 2	WITHDRAWAL	UNUSED	33	0	30	2		True					
475170	VERIZON PA LLC - S DIST WORK CTR 2	MONITORING	OTHER	33	0	30	2		True					
475170	VERIZON PA LLC - S DIST WORK CTR 2	WITHDRAWAL	UNUSED	33	0	30	2		True					
475169	VERIZON PA LLC - S DISTRICT WORK CTR 2	MONITORING	OTHER	33	0	30	2		True					
475169	VERIZON PA LLC - S DISTRICT WORK CTR 2	WITHDRAWAL	UNUSED	33	0	30	2		True					
475168	VERIZON PA LLC - S DISTRICT WORK CTR 2	MONITORING	OTHER	33	0	30	2		True					
475168	VERIZON PA LLC - S DISTRICT WORK CTR 2	WITHDRAWAL	UNUSED	33	0	30	2		True					
473933	hess	MONITORING	INDUSTRIAL	23	0	3	4		True	1	6		30	OTHER
424578	SUNOCO	WITHDRAWAL		20					False					
424577	SUNOCO	WITHDRAWAL		25					False					
424576	SUNOCO	WITHDRAWAL		25					False					
424572	SUNOCO	WITHDRAWAL		22					False					
424571	SUNOCO	WITHDRAWAL		25					False					
424570	SUNOCO	WITHDRAWAL		25					False					
424565	SUNOCO	WITHDRAWAL		30					False					
424514	SUNOCO	WITHDRAWAL		28					False					
424513	SUNOCO	WITHDRAWAL		30					False					
424512	SUNOCO	WITHDRAWAL		20					False					
424511	SUNOCO	WITHDRAWAL		20					False					
424510	SUNOCO	WITHDRAWAL		30					False					
424509	SUNOCO	WITHDRAWAL		20					False					
424508	SUNOCO	WITHDRAWAL		34					False					
424507	SUNOCO	WITHDRAWAL		18					False					
424506	SUNOCO	WITHDRAWAL		14					False					
424505	SUNOCO	WITHDRAWAL		18					False					
424503	SUNOCO	WITHDRAWAL		26					False					
424490	SUNOCO	WITHDRAWAL		20					False					
424487	SUNOCO	WITHDRAWAL		20					False					
424479	SUNOCO	WITHDRAWAL		20					False					
424478	SUNOCO	WITHDRAWAL		30					False					
424477	SUNOCO	WITHDRAWAL		18					False					
424476	SUNOCO	WITHDRAWAL		20					False					
424475	SUNOCO	WITHDRAWAL		26					False					
424474	SUNOCO	WITHDRAWAL		18					False					
424473	SUNOCO	WITHDRAWAL		26					False					
424472	SUNOCO	WITHDRAWAL		14					False					
424471	SUNOCO	WITHDRAWAL		32					False					
424470	SUNOCO	WITHDRAWAL		14					False					
424469	SUNOCO	WITHDRAWAL		14					False					
424468	SUNOCO	WITHDRAWAL		14					False					
424467	SUNOCO	WITHDRAWAL		18					False					
424466	SUNOCO	WITHDRAWAL		18					False					
424462	SUNOCO	WITHDRAWAL		18					False					
424461	SUNOCO	WITHDRAWAL		25					False					
424457	SUNOCO	WITHDRAWAL		15					False					
30470	HENRY BOWER CHEMICAL	DESTROYED	UNUSED	100	0		12		False	50	20			REPORTED METHOD NOT KNOWN
30470	HENRY BOWER CHEMICAL	DESTROYED	UNUSED	100	0	80	8		False	50	20			REPORTED METHOD NOT KNOWN
30468	SEABOARD SUPPLY CO	UNUSED	UNUSED	160	0	46	6		False	11.1		43	2	TOTALING METER
30468	SEABOARD SUPPLY CO	UNUSED	UNUSED	160	0	46	6		False	50		159	1	VOLUMETRIC WATCH & BUCKET
30467	HENRY BOWER CHEMICAL	DESTROYED	UNUSED	80	0	80	12		False	115	33			REPORTED METHOD NOT KNOWN
30462	ZUCKERMAN & HONICKMA	UNUSED	UNUSED	300	0	18	8		False	78	9.89			REPORTED METHOD NOT KNOWN
30460	COCA-COLA BOTTLING C	DESTROYED	UNUSED	383	0	50	8		False	120	25	85		REPORTED METHOD NOT KNOWN

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30446	ATLANTIC REFINING CO	DESTROYED	UNUSED	76	0		16		False	201	20.98709	42.6		REPORTED METHOD NOT KNOWN
30446	ATLANTIC REFINING CO	DESTROYED	UNUSED	76	0	54	12		False	201	20.98709	42.6		REPORTED METHOD NOT KNOWN
30446	ATLANTIC REFINING CO	DESTROYED	UNUSED	76	0		20		False	201	20.98709	42.6		REPORTED METHOD NOT KNOWN
30444	ATLANTIC REFINING CO	DESTROYED	UNUSED	78	0		16		False	300				REPORTED METHOD NOT KNOWN
30444	ATLANTIC REFINING CO	DESTROYED	UNUSED	78	0		16		False		23			
30444	ATLANTIC REFINING CO	DESTROYED	UNUSED	78	0	58	12		False		23			
30444	ATLANTIC REFINING CO	DESTROYED	UNUSED	78	0	58	12		False	300				REPORTED METHOD NOT KNOWN
30443	ATLANTIC REFINING CO	DESTROYED	UNUSED	95	0		6		False	325				REPORTED METHOD NOT KNOWN
30443	ATLANTIC REFINING CO	DESTROYED	UNUSED	95	0		120		False	325				REPORTED METHOD NOT KNOWN
30439	ATLANTIC REFINING CO	UNUSED	UNUSED	78	0	60	10		False		10.6			
30439	ATLANTIC REFINING CO	UNUSED	UNUSED	78	0	60	10		False	614				REPORTED METHOD NOT KNOWN
30439	ATLANTIC REFINING CO	UNUSED	UNUSED	78	0	60	10		False	64	11.23158	14.6	1	VOLUMETRIC WATCH & BUCKET
29937	BREYER ICE CREAM CO	DESTROYED	UNUSED	393	0	56	8		False	100	20			REPORTED METHOD NOT KNOWN
29937	BREYER ICE CREAM CO	DESTROYED	UNUSED	393					False	100	20			REPORTED METHOD NOT KNOWN
29930	F G VOGT & SONS	DESTROYED	UNUSED	47	0	11	6		False	50	20			REPORTED METHOD NOT KNOWN
29927	F G VOGT & SONS	DESTROYED	UNUSED	40	0	40	8		False	37	18			REPORTED METHOD NOT KNOWN
29926	F G VOGT & SONS	DESTROYED	UNUSED	102	0	38	8		False		18			
29925	PHILA ABATTOIR CO	UNUSED	UNUSED	31	0		16		False	60	4.56			REPORTED METHOD NOT KNOWN
29918	HENRY BOWER CHEMICAL	DESTROYED	UNUSED	130	0		16		False		34			
29918	HENRY BOWER CHEMICAL	DESTROYED	UNUSED	130	0		16		False	185	34.18841	61		REPORTED METHOD NOT KNOWN
29918	HENRY BOWER CHEMICAL	DESTROYED	UNUSED	130	0	79	10		False	185	34.18841	61		REPORTED METHOD NOT KNOWN
29918	HENRY BOWER CHEMICAL	DESTROYED	UNUSED	130	0	79	10		False		34			
29915	ANDERSON INC	DESTROYED	UNUSED	404	0	48	6		False	50	40			
29905	MILLAR BROS & CO	UNUSED	UNUSED	230	0	54	8		False	80	20.7			REPORTED METHOD NOT KNOWN
29904	PURITAN LOOMS	DESTROYED	UNUSED	58	0	58	12		False	180	19			REPORTED METHOD NOT KNOWN
29901	CITY OF PHILA	DESTROYED	UNUSED	442	0	28	8		False	100	5			
29900	EARL THEATER	DESTROYED	UNUSED	51	0	41	8		False	114	33.875	41		REPORTED METHOD NOT KNOWN
29900	EARL THEATER	DESTROYED	UNUSED	51	0		12		False	114	33.875	41		REPORTED METHOD NOT KNOWN
29898	JOS RYERSON & SON IN	DESTROYED	UNUSED	200	0	9	8		False	40	25			REPORTED METHOD NOT KNOWN
29896	JOS RYERSON & SON IN	DESTROYED	UNUSED	528	0		8		False	50				REPORTED METHOD NOT KNOWN
29895	EDMUND WEBSTERS BRIC	DESTROYED	UNUSED	68	0		8		False					
29877	ATLANTIC RICHFIELD C	OBSERVATION	UNUSED	18	0	9	12		False		12			
29876	ATLANTIC REFINING CO	DESTROYED	UNUSED	101					False					
29875	ATLANTIC RICHFIELD C	OBSERVATION	UNUSED	25.4	0	16.4	16		False		1.39			
29865	ATLANTIC REFINING CO	DESTROYED	UNUSED	76	0	66	16		False					
29865	ATLANTIC REFINING CO	DESTROYED	UNUSED	76	0		20		False					
29863	ATLANTIC REFINING CO	DESTROYED	UNUSED	104	0		18		False		18.7			
29863	ATLANTIC REFINING CO	DESTROYED	UNUSED	104	0		24		False		18.7			
29862	ATLANTIC REFINING CO	DESTROYED	UNUSED	94					False					
29860	ATLANTIC REFINING CO	DESTROYED	UNUSED	68	0	62	60		False	200	6.5			REPORTED METHOD NOT KNOWN
29857	ATLANTIC REFINING CO	DESTROYED	UNUSED	95					False					
29855	REGAL PETROLEUM PROD	DESTROYED	UNUSED	351	0	22	8		False	153	4	78.7	7.5	
136068	SEABOARD SUPPLY CO	WITHDRAWAL	DOMESTIC	160	0	46	6	40	False	50	29	159	1	ESTIMATED

1-Mile Radius Well Search  
Alliance 51st Street LLC  
1646 South 51st Street  
Philadelphia, Pennsylvania

Pennsylvania			
Well ID	SaltwaterZone(ft)	FormationName	PaperImageLink
696276			<a href="http://www.iframeapps.dcnr.state.pa.us/topogeo/PaGWIS_search/DisplayReportImage.aspx?id=IM251106">http://www.iframeapps.dcnr.state.pa.us/topogeo/PaGWIS_search/DisplayReportImage.aspx?id=IM251106</a>
696275			http://www.iframeapps.dcnr.state.pa.us/topogeo/PaGWIS_search/DisplayReportImage.aspx?id=IM251107
696275			http://www.iframeapps.dcnr.state.pa.us/topogeo/PaGWIS_search/DisplayReportImage.aspx?id=IM251107
696274			http://www.iframeapps.dcnr.state.pa.us/topogeo/PaGWIS_search/DisplayReportImage.aspx?id=IM251108
696274			http://www.iframeapps.dcnr.state.pa.us/topogeo/PaGWIS_search/DisplayReportImage.aspx?id=IM251108
693848			
692752			
692744			
692724			
692723			
692721			
692704			
692703			
692701			
692691			
692688			
692687			
692686			
682795			
681250			
681250			
681244			
681244			
681230			
681230			
681228			
681228			
681211			
681211			
681186			
681186			
681178			
681178			
681156			
681156			
681155			
681155			
681152			
681152			
681146			
681146			
681118			
681118			
680920			
680919			
680917			
680684			
680683			
680667			
680666			
680474			
680416			
680415			
680387			
680042			
680041			
680040			
680039			
679742			
679715			
679712			
679701			

1-Mile Radius Well Search  
Alliance 51st Street LLC  
1646 South 51st Street  
Philadelphia, Pennsylvania

Pennsylvania			
Well ID	SaltwaterZone(ft)	FormationName	PaperImageLink
679605			
679576			
679575			
679572			
679549			
679538			
679537			
679309			
679301			
679296			
679295			
679288			
679287			
679286			
679285			
679284			
679279			
679278			
679271			
679265			
679264			
679263			
679262			
679254			
679253			
679252			
679133			
679065			
679015			
678983			
678982			
678981			
673122			<a href="http://www.iframeapps.dcnr.state.pa.us/topogeo/PaGWIS_search/DisplayReportImage.aspx?id=IM246921">http://www.iframeapps.dcnr.state.pa.us/topogeo/PaGWIS_search/DisplayReportImage.aspx?id=IM246921</a>
673122			<a href="http://www.iframeapps.dcnr.state.pa.us/topogeo/PaGWIS_search/DisplayReportImage.aspx?id=IM246921">http://www.iframeapps.dcnr.state.pa.us/topogeo/PaGWIS_search/DisplayReportImage.aspx?id=IM246921</a>
673121			<a href="http://www.iframeapps.dcnr.state.pa.us/topogeo/PaGWIS_search/DisplayReportImage.aspx?id=IM246922">http://www.iframeapps.dcnr.state.pa.us/topogeo/PaGWIS_search/DisplayReportImage.aspx?id=IM246922</a>
673121			<a href="http://www.iframeapps.dcnr.state.pa.us/topogeo/PaGWIS_search/DisplayReportImage.aspx?id=IM246922">http://www.iframeapps.dcnr.state.pa.us/topogeo/PaGWIS_search/DisplayReportImage.aspx?id=IM246922</a>
668978			
668978			
668977			
668977			
668884			
668884			
668866			
668866			
668849			
668849			
668848			

1-Mile Radius Well Search  
Alliance 51st Street LLC  
1646 South 51st Street  
Philadelphia, Pennsylvania

Pennsylvania			
Well ID	SaltwaterZone(ft)	FormationName	PaperImageLink
668848			
668841			
668841			
668755			
668755			
668752			
668752			
653657			
653650			
653649			
653648			
653505			
653505			
653505			
648797			
643401			
643401			
643400			
643400			
643399			
643399			
642905			
642905			
642893			
642893			
642823			
642823			
642822			
642822			
642821			
642821			
642820			
642820			
642820			
623377			
623376			
623375			
623333			
623332			
604369			<a href="http://www.iframeapps.dcnr.state.pa.us/topogeo/PaGWIS_search/DisplayReportImage.aspx?id=IM226094">http://www.iframeapps.dcnr.state.pa.us/topogeo/PaGWIS_search/DisplayReportImage.aspx?id=IM226094</a>
604369			<a href="http://www.iframeapps.dcnr.state.pa.us/topogeo/PaGWIS_search/DisplayReportImage.aspx?id=IM226094">http://www.iframeapps.dcnr.state.pa.us/topogeo/PaGWIS_search/DisplayReportImage.aspx?id=IM226094</a>
604369			<a href="http://www.iframeapps.dcnr.state.pa.us/topogeo/PaGWIS_search/DisplayReportImage.aspx?id=IM226094">http://www.iframeapps.dcnr.state.pa.us/topogeo/PaGWIS_search/DisplayReportImage.aspx?id=IM226094</a>
604368			<a href="http://www.iframeapps.dcnr.state.pa.us/topogeo/PaGWIS_search/DisplayReportImage.aspx?id=IM226093">http://www.iframeapps.dcnr.state.pa.us/topogeo/PaGWIS_search/DisplayReportImage.aspx?id=IM226093</a>
604368			<a href="http://www.iframeapps.dcnr.state.pa.us/topogeo/PaGWIS_search/DisplayReportImage.aspx?id=IM226093">http://www.iframeapps.dcnr.state.pa.us/topogeo/PaGWIS_search/DisplayReportImage.aspx?id=IM226093</a>
604368			<a href="http://www.iframeapps.dcnr.state.pa.us/topogeo/PaGWIS_search/DisplayReportImage.aspx?id=IM226093">http://www.iframeapps.dcnr.state.pa.us/topogeo/PaGWIS_search/DisplayReportImage.aspx?id=IM226093</a>
604367			<a href="http://www.iframeapps.dcnr.state.pa.us/topogeo/PaGWIS_search/DisplayReportImage.aspx?id=IM226092">http://www.iframeapps.dcnr.state.pa.us/topogeo/PaGWIS_search/DisplayReportImage.aspx?id=IM226092</a>
604367			<a href="http://www.iframeapps.dcnr.state.pa.us/topogeo/PaGWIS_search/DisplayReportImage.aspx?id=IM226092">http://www.iframeapps.dcnr.state.pa.us/topogeo/PaGWIS_search/DisplayReportImage.aspx?id=IM226092</a>
604367			<a href="http://www.iframeapps.dcnr.state.pa.us/topogeo/PaGWIS_search/DisplayReportImage.aspx?id=IM226092">http://www.iframeapps.dcnr.state.pa.us/topogeo/PaGWIS_search/DisplayReportImage.aspx?id=IM226092</a>
604366			<a href="http://www.iframeapps.dcnr.state.pa.us/topogeo/PaGWIS_search/DisplayReportImage.aspx?id=IM226091">http://www.iframeapps.dcnr.state.pa.us/topogeo/PaGWIS_search/DisplayReportImage.aspx?id=IM226091</a>
604366			<a href="http://www.iframeapps.dcnr.state.pa.us/topogeo/PaGWIS_search/DisplayReportImage.aspx?id=IM226091">http://www.iframeapps.dcnr.state.pa.us/topogeo/PaGWIS_search/DisplayReportImage.aspx?id=IM226091</a>
604366			<a href="http://www.iframeapps.dcnr.state.pa.us/topogeo/PaGWIS_search/DisplayReportImage.aspx?id=IM226091">http://www.iframeapps.dcnr.state.pa.us/topogeo/PaGWIS_search/DisplayReportImage.aspx?id=IM226091</a>
604365			<a href="http://www.iframeapps.dcnr.state.pa.us/topogeo/PaGWIS_search/DisplayReportImage.aspx?id=IM226090">http://www.iframeapps.dcnr.state.pa.us/topogeo/PaGWIS_search/DisplayReportImage.aspx?id=IM226090</a>
604365			<a href="http://www.iframeapps.dcnr.state.pa.us/topogeo/PaGWIS_search/DisplayReportImage.aspx?id=IM226090">http://www.iframeapps.dcnr.state.pa.us/topogeo/PaGWIS_search/DisplayReportImage.aspx?id=IM226090</a>
604365			<a href="http://www.iframeapps.dcnr.state.pa.us/topogeo/PaGWIS_search/DisplayReportImage.aspx?id=IM226090">http://www.iframeapps.dcnr.state.pa.us/topogeo/PaGWIS_search/DisplayReportImage.aspx?id=IM226090</a>
510997			

1-Mile Radius Well Search  
Alliance 51st Street LLC  
1646 South 51st Street  
Philadelphia, Pennsylvania

Pennsylvania			
Well ID	SaltwaterZone(ft)	FormationName	PaperImageLink
510993			
510985			
510983			
510959			
504918			
500377			
500376			
500375			
499803			
499726			
499691			
499691			
498763			
496542			
496542			
490718			
490718			
490716			
490716			
490715			
490715			
490586			
490585			
490584			
490583			
490582			
490581			
490363			
490363			
490280			
490279			
490278			
490277			
490121			
490120			
484591			
484591			
48395		TRENTON GRAVEL	
48394		TRENTON GRAVEL	
48393		TRENTON GRAVEL	
48392		TRENTON GRAVEL	
48391		TRENTON GRAVEL	
48390		TRENTON GRAVEL	
48389		TRENTON GRAVEL	
48388		TRENTON GRAVEL	
48387		TRENTON GRAVEL	
48386		TRENTON GRAVEL	
48385		TRENTON GRAVEL	
48384		TRENTON GRAVEL	
48383		TRENTON GRAVEL	
48382		TRENTON GRAVEL	
48381		TRENTON GRAVEL	
48380		TRENTON GRAVEL	
48379		TRENTON GRAVEL	
48378		TRENTON GRAVEL	
48376		TRENTON GRAVEL	
48204		TRENTON GRAVEL	
478098			
478098			
477824			
477823			
477821			

1-Mile Radius Well Search  
Alliance 51st Street LLC  
1646 South 51st Street  
Philadelphia, Pennsylvania

Pennsylvania			
Well ID	SaltwaterZone(ft)	FormationName	PaperImageLink
477819			
477745			
477165			
475994			
475994			
475993			
475993			
475283			
475283			
475171			
475171			
475170			
475170			
475169			
475169			
475168			
475168			
473933			
424578			
424577			
424576			
424572			
424571			
424570			
424565			
424514			
424513			
424512			
424511			
424510			
424509			
424508			
424507			
424506			
424505			
424503			
424490			
424487			
424479			
424478			
424477			
424476			
424475			
424474			
424473			
424472			
424471			
424470			
424469			
424468			
424467			
424466			
424462			
424461			
424457			
30470	7-RARITAN-POTOMAC AQUIFER SYSTEM LOWER S,		
30470	7-RARITAN-POTOMAC AQUIFER SYSTEM LOWER S,		
30468	WISSAHICKON FORMATION		
30468	WISSAHICKON FORMATION		
30467	7-RARITAN-POTOMAC AQUIFER SYSTEM LOWER S,		
30462	WISSAHICKON FORMATION		
30460	WISSAHICKON FORMATION		

1-Mile Radius Well Search  
Alliance 51st Street LLC  
1646 South 51st Street  
Philadelphia, Pennsylvania

Pennsylvania			
Well ID	SaltwaterZone(ft)	FormationName	PaperImageLink
30446		TRENTON GRAVEL	
30446		TRENTON GRAVEL	
30446		TRENTON GRAVEL	
30444		TRENTON GRAVEL	
30444		TRENTON GRAVEL	
30444		TRENTON GRAVEL	
30444		TRENTON GRAVEL	
30443		TRENTON GRAVEL	
30443		TRENTON GRAVEL	
30439	′-RARITAN-POTOMAC AQUIFER SYSTEM LOWER S,		
30439	′-RARITAN-POTOMAC AQUIFER SYSTEM LOWER S,		
30439	′-RARITAN-POTOMAC AQUIFER SYSTEM LOWER S,		
29937		WISSAHICKON FORMATION	
29937		WISSAHICKON FORMATION	
29930		WISSAHICKON FORMATION	
29927		WISSAHICKON FORMATION	
29926		WISSAHICKON FORMATION	
29925		WISSAHICKON FORMATION	
29918	′-RARITAN-POTOMAC AQUIFER SYSTEM LOWER S,		
29918	′-RARITAN-POTOMAC AQUIFER SYSTEM LOWER S,		
29918	′-RARITAN-POTOMAC AQUIFER SYSTEM LOWER S,		
29918	′-RARITAN-POTOMAC AQUIFER SYSTEM LOWER S,		
29915		WISSAHICKON FORMATION	
29905		WISSAHICKON FORMATION	
29904		TRENTON GRAVEL	
29901		WISSAHICKON FORMATION	
29900		TRENTON GRAVEL	
29900		TRENTON GRAVEL	
29898		WISSAHICKON FORMATION	
29896		WISSAHICKON FORMATION	
29895	′-RARITAN-POTOMAC AQUIFER SYSTEM LOWER S,		
29877		TRENTON GRAVEL	
29876		TRENTON GRAVEL	
29875		TRENTON GRAVEL	
29865		WISSAHICKON FORMATION	
29865		WISSAHICKON FORMATION	
29863		WISSAHICKON FORMATION	
29863		WISSAHICKON FORMATION	
29862		TRENTON GRAVEL	
29860		TRENTON GRAVEL	
29857		TRENTON GRAVEL	
29855		WISSAHICKON FORMATION	
136068		TRENTON GRAVEL	

1-Mile Radius Well Search  
Alliance 51st Street LLC  
1646 South 51st Street  
Philadelphia, Pennsylvania

Pennsylvania Well ID	Remark
696276	MW3. LAT-LONG APPROX TO SITE. DRILLER'S RECORD DOESN'T SHOW DETAILS OF EXACT WELL LOCATION.
696275	LAT-LONG APPROX TO SITE. DRILLER'S RECORD NOT DETAILED ENOUGH TO SHOW EXACT WELL LOCATION.
696275	LAT-LONG APPROX TO SITE. DRILLER'S RECORD NOT DETAILED ENOUGH TO SHOW EXACT WELL LOCATION.
696274	LAT-LONG APPROX TO SITE. DRILLER'S RECORD NOT DETAILED ENOUGH TO SHOW EXACT WELL LOCATION.
696274	LAT-LONG APPROX TO SITE. DRILLER'S RECORD NOT DETAILED ENOUGH TO SHOW EXACT WELL LOCATION.
693848	
692752	MONITORING WELL #8 -REMOVED MANHOLE & PAD REPLACED WITH ASPHALT PATCH 0-25 BENTONITE GROUT
692744	MONITORING WELL #12 -REMOVED MANHOLE & PAD REPLACED WITH TOPSOIL 0-30 HOLEPLUG
692724	MONITORING WELL #1 -REMOVED MANHOLE & PAD REPLACED WITH ASPHALT PATCH 0 - 30 BENTONITE GROUT
692723	MONITORING WELL #9 -REMOVED MANHOLE & PAD REPLACED WITH TOPSOIL 0-25 BENTONITE GROUT
692721	MONITORING WELL #2 -REMOVED MANHOLE & PAD REPLACED WITH ASPHALT PATCH 0-25 BENTONITE GROUT
692704	MONITORING WELL #5 -REMOVED MANHOLE & PAD REPLACED WITH TOPSOIL 0-30 BENTONITE GROUT
692703	MONITORING WELL #10 -REMOVED MANHOLE & PAD REPLACED WITH TOPSOIL 0-30 HOLEPLUG
692701	MONITORING WELL #7 -REMOVED MANHOLE & PAD REPLACED WITH TOPSOIL 0-25 HOLEPLUG
692691	MONITORING WELL #6 -REMOVED MANHOLE & PAD REPLACED WITH TOPSOIL 0-30 BENTONITE GROUT
692688	MONITORING WELL #11 -REMOVED MANHOLE & PAD REPLACED WITH TOPSOIL 0-30 BENTONITE GROUT
692687	MONITORING WELL #4 -REMOVED MANHOLE & PAD REPLACED WITH ASPHALT PATCH 0-25 BENTONITE GROUT
692686	MONITORING WELL #3 -REMOVED MANHOLE & PAD REPLACED WITH ASPHALT PATCH 0-25 BENTONITE GROUT
682795	
681250	VAPOR PT 5 abandonment restore surface to match existing.
681250	VAPOR PT 5 abandonment restore surface to match existing.
681244	Monitoring well 4 abandonment restore surface to match existing.
681244	Monitoring well 4 abandonment restore surface to match existing.
681230	RW2 Monitoring well abandonment restore surface to match existing.
681230	RW2 Monitoring well abandonment restore surface to match existing.
681228	RW1 Monitoring well abandonment restore surface to match existing.
681228	RW1 Monitoring well abandonment restore surface to match existing.
681211	Monitoring well 6 abandonment restore surface to match existing.
681211	Monitoring well 6 abandonment restore surface to match existing.
681186	VAPOR PT 4 abandonment restore surface to match existing.
681186	VAPOR PT 4 abandonment restore surface to match existing.
681178	VAPOR POINT 1 abandonment restore surface to match existing.
681178	VAPOR POINT 1 abandonment restore surface to match existing.
681156	VAPOR PT 3 abandonment restore surface to match existing.
681156	VAPOR PT 3 abandonment restore surface to match existing.
681155	VP2 Monitoring well abandonment restore surface to match existing.
681155	VP2 Monitoring well abandonment restore surface to match existing.
681152	Monitoring well abandonment restore surface to match existing.
681152	Monitoring well abandonment restore surface to match existing.
681146	Monitoring well abandonment restore surface to match existing.
681146	Monitoring well abandonment restore surface to match existing.
681118	MW5 ABANDONMENT
681118	MW5 ABANDONMENT
680920	
680919	
680917	
680684	
680683	
680667	
680666	
680474	
680416	
680415	
680387	
680042	
680041	
680040	
680039	
679742	
679715	
679712	
679701	

1-Mile Radius Well Search  
Alliance 51st Street LLC  
1646 South 51st Street  
Philadelphia, Pennsylvania

Pennsylvania Well ID	Remark
679605	
679576	
679575	
679572	
679549	
679538	
679537	
679309	THIS IS A VAPOR WELL. Concrete filled.
679301	PVC Pipe not removed. 10 to 24 feet bentonite chip filled after dewatering 0 tp 14 feet concrete filled.
679296	This was a vapor well with a site number of VWP2. The well was concret filled.
679295	
679288	
679287	
679286	
679285	Top 10 concret grout bottom 10 feet bentonite chips.
679284	Top 10 feet concrete grout. Bottom 10 feet bentonite chips.
679279	This is a vapor well. Thw site number is VMP7. The well is filled with concrete.
679278	This is a vapor well the site I.D. is VMP6. The well is filled with concrete.
679271	
679265	This is a vapor well. The site identification number is VMP5. The well is filled with concrete.
679264	This is a vapor well. The well was filed with concrete. The site number is VMP4
679263	This is a vapor well with a site number of VMP1. Concrete filled.
679262	14 feet of bentonite chips 10. to 24 feet. Concrete placed 0 to 14 foot depth pipe dewatered before placement.
679254	
679253	
679252	
679133	
679065	
679015	
678983	
678982	
678981	
673122	MWs 2 AND 3. SITE MAY PREVIOUSLY BEEN KNOWN AS 76 CARRIAGE CO. REDEVELOPER APPEARS TO BE KNOWN AS ISLAND REALTY - STEEL EQUITIES. SITE ALSO APPEARS TO HAVE GONE THROUGH PA DEP ACT 2 BROWNFIELDS PROGRAM.
673122	MWs 2 AND 3. SITE MAY PREVIOUSLY BEEN KNOWN AS 76 CARRIAGE CO. REDEVELOPER APPEARS TO BE KNOWN AS ISLAND REALTY - STEEL EQUITIES. SITE ALSO APPEARS TO HAVE GONE THROUGH PA DEP ACT 2 BROWNFIELDS PROGRAM.
673121	MW1. SITE MAY PREVIOUSLY BEEN KNOWN AS 76 CARRIAGE CO. REDEVELOPER APPEARS TO BE KNOWN AS ISLAND REALTY - STEEL EQUITIES. SITE ALSO APPEARS TO HAVE GONE THROUGH PA DEP ACT 2 BROWNFIELDS PROGRAM.
673121	MW1. SITE MAY PREVIOUSLY BEEN KNOWN AS 76 CARRIAGE CO. REDEVELOPER APPEARS TO BE KNOWN AS ISLAND REALTY - STEEL EQUITIES. SITE ALSO APPEARS TO HAVE GONE THROUGH PA DEP ACT 2 BROWNFIELDS PROGRAM.
668978	MW8 WELL ABANDONMENT. DEP'S EFACTS LISTS THE SITE NAME AS 58TH STREET SUNOCO. AUGUST 2019 GOOGLE STREET IMAGERY SHOWS THE SITE AS A CITGO. TREMIE GROUTED FROM TOP TO BOTTOM. RESTORED SURFACT TO MATCH EXISTING.
668978	MW8 WELL ABANDONMENT. DEP'S EFACTS LISTS THE SITE NAME AS 58TH STREET SUNOCO. AUGUST 2019 GOOGLE STREET IMAGERY SHOWS THE SITE AS A CITGO. TREMIE GROUTED FROM TOP TO BOTTOM. RESTORED SURFACT TO MATCH EXISTING.
668977	MW6 WELL ABANDONMENT. DEP'S EFACTS LISTS THE SITE NAME AS 58TH STREET SUNOCO. AUGUST 2019 GOOGLE STREET IMAGERY SHOWS THE SITE AS A CITGO. TREMIE GROUTED FROM TOP TO BOTTOM. RESTORED SURFACT TO MATCH EXISTING.
668977	MW6 WELL ABANDONMENT. DEP'S EFACTS LISTS THE SITE NAME AS 58TH STREET SUNOCO. AUGUST 2019 GOOGLE STREET IMAGERY SHOWS THE SITE AS A CITGO. TREMIE GROUTED FROM TOP TO BOTTOM. RESTORED SURFACT TO MATCH EXISTING.
668884	MW2 WELL ABANDONMENT. DEP'S EFACTS LISTS THE SITE NAME AS 58TH STREET SUNOCO. AUGUST 2019 GOOGLE STREET IMAGERY SHOWS THE SITE AS A CITGO. TREMIE GROUTED FROM TOP TO BOTTOM. RESTORED SURFACT TO MATCH EXISTING.
668884	MW2 WELL ABANDONMENT. DEP'S EFACTS LISTS THE SITE NAME AS 58TH STREET SUNOCO. AUGUST 2019 GOOGLE STREET IMAGERY SHOWS THE SITE AS A CITGO. TREMIE GROUTED FROM TOP TO BOTTOM. RESTORED SURFACT TO MATCH EXISTING.
668866	MW5 WELL ABANDONMENT. DEP'S EFACTS LISTS THE SITE NAME AS 58TH STREET SUNOCO. AUGUST 2019 GOOGLE STREET IMAGERY SHOWS THE SITE AS A CITGO. TREMIE GROUTED FROM TOP TO BOTTOM. RESTORED SURFACT TO MATCH EXISTING.
668866	MW5 WELL ABANDONMENT. DEP'S EFACTS LISTS THE SITE NAME AS 58TH STREET SUNOCO. AUGUST 2019 GOOGLE STREET IMAGERY SHOWS THE SITE AS A CITGO. TREMIE GROUTED FROM TOP TO BOTTOM. RESTORED SURFACT TO MATCH EXISTING.
668849	MW3 WELL ABANDONMENT. DEP'S EFACTS LISTS THE SITE NAME AS 58TH STREET SUNOCO. AUGUST 2019 GOOGLE STREET IMAGERY SHOWS THE SITE AS A CITGO. TREMIE GROUTED FROM TOP TO BOTTOM. RESTORED SURFACT TO MATCH EXISTING.
668849	MW3 WELL ABANDONMENT. DEP'S EFACTS LISTS THE SITE NAME AS 58TH STREET SUNOCO. AUGUST 2019 GOOGLE STREET IMAGERY SHOWS THE SITE AS A CITGO. TREMIE GROUTED FROM TOP TO BOTTOM. RESTORED SURFACT TO MATCH EXISTING.
668848	MW1 WELL ABANDONMENT. DEP'S EFACTS LISTS THE SITE NAME AS 58TH STREET SUNOCO. AUGUST 2019 GOOGLE STREET IMAGERY SHOWS THE SITE AS A CITGO. TREMIE GROUTED FROM TOP TO BOTTOM. RESTORED SURFACT TO MATCH EXISTING.

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Alliance 51st Street LLC  
1646 South 51st Street  
Philadelphia, Pennsylvania

Pennsylvania Well ID	Remark
668848	MW1 WELL ABANDONMENT. DEP'S EFACTS LISTS THE SITE NAME AS 58TH STREET SUNOCO. AUGUST 2019 GOOGLE STREET IMAGERY SHOWS THE SITE AS A CITGO. TREMIE GROUTED FROM TOP TO BOTTOM. RESTORED SURFACT TO MATCH EXISTING.
668841	MW4 WELL ABANDONMENT. DEP'S EFACTS LISTS THE SITE NAME AS 58TH STREET SUNOCO. AUGUST 2019 GOOGLE STREET IMAGERY SHOWS THE SITE AS A CITGO. TREMIE GROUTED FROM TOP TO BOTTOM. RESTORED SURFACT TO MATCH EXISTING.
668841	MW4 WELL ABANDONMENT. DEP'S EFACTS LISTS THE SITE NAME AS 58TH STREET SUNOCO. AUGUST 2019 GOOGLE STREET IMAGERY SHOWS THE SITE AS A CITGO. TREMIE GROUTED FROM TOP TO BOTTOM. RESTORED SURFACT TO MATCH EXISTING.
668755	MW9 WELL ABANDONMENT. DEP'S EFACTS LISTS THE SITE NAME AS 58TH STREET SUNOCO. AUGUST 2019 GOOGLE STREET IMAGERY SHOWS THE SITE AS A CITGO. TREMIE GROUTED FROM TOP TO BOTTOM. RESTORED SURFACT TO MATCH EXISTING.
668755	MW9 WELL ABANDONMENT. DEP'S EFACTS LISTS THE SITE NAME AS 58TH STREET SUNOCO. AUGUST 2019 GOOGLE STREET IMAGERY SHOWS THE SITE AS A CITGO. TREMIE GROUTED FROM TOP TO BOTTOM. RESTORED SURFACT TO MATCH EXISTING.
668752	MW7 WELL ABANDONMENT. DEP'S EFACTS LISTS THE SITE NAME AS 58TH STREET SUNOCO. AUGUST 2019 GOOGLE STREET IMAGERY SHOWS THE SITE AS A CITGO.
668752	MW7 WELL ABANDONMENT. DEP'S EFACTS LISTS THE SITE NAME AS 58TH STREET SUNOCO. AUGUST 2019 GOOGLE STREET IMAGERY SHOWS THE SITE AS A CITGO.
653657	Located off S 61st Street between Passyunk Ave and Eastwick Ave.
653650	Located off S 61st Street between Passyunk Ave and Eastwick Ave.
653649	Located off S 61st Street between Passyunk Ave and Eastwick Ave.
653648	Located off S 61st Street between Passyunk Ave and Eastwick Ave.
653505	
653505	
653505	
648797	
643401	
643401	
643400	
643400	
643399	
643399	
642905	
642905	
642893	
642893	
642823	
642823	
642822	
642822	
642821	
642821	
642820	
642820	
642820	
623377	
623376	
623375	
623333	
623332	
604369	VP5
604369	VP5
604369	VP5
604368	VP4
604368	VP4
604368	VP4
604367	VP3
604367	VP3
604367	VP3
604366	VP2
604366	VP2
604366	VP2
604365	VP-1
604365	VP-1
604365	VP-1
510997	Well located directly in front of building 5 feet off of sidewalk.

1-Mile Radius Well Search  
Alliance 51st Street LLC  
1646 South 51st Street  
Philadelphia, Pennsylvania

Pennsylvania Well ID	Remark
510993	Well located adjacent to back property line 5 feet off SE building corner.
510985	Well located in the SE corner of the site adjacent to 52nd Street and 15 feet from back property line.
510983	Well located 6 feet south of cutout for sign.
510959	Well located north of service island next to Woodland Ave.
504918	
500377	Well drilled and installed using CME 75 with 4 1/4" hsa
500376	Well drilled and installed using CME 75 using 4 1/4" hsa
500375	Well drilled and installed using CME 75 with 4 1/4" hsa
499803	Well drilled and sampled continuous to 30' using hsa and split spoon samplers
499726	Well drilled and sampled continuous to 30' using hsa and split spoon samplers
499691	Well Drilled and sampled continuously using hsa and split spoon samplers to 30 feet
499691	Well Drilled and sampled continuously using hsa and split spoon samplers to 30 feet
498763	
496542	MONITORING WELL #4
496542	MONITORING WELL #4
490718	
490718	
490716	
490716	
490715	
490715	
490586	Tremied grout restore surface to match existing.
490585	Tremied grout restore surface to match existing.
490584	Tremied grout restore surface to match existing.
490583	Tremied grout restore surface to match existing.
490582	Tremied grout restore surface to match existing.
490581	Tremied grout restore surface to match existing.
490363	
490363	
490280	Tremied grout restore surface to match existing.
490279	Tremied grout restore surface to match existing.
490278	Tremied grout restore surface to match existing.
490277	Tremied grout restore surface to match existing.
490121	Tremied grout restore surface to match existing.
490120	Tremied grout restore surface to match existing.
484591	MONITORING WELL #5
484591	MONITORING WELL #5
48395	
48394	
48393	
48392	
48391	
48390	
48389	
48388	
48387	
48386	
48385	
48384	
48383	
48382	
48381	
48380	
48379	
48378	
48376	
48204	
478098	MONITORING WELL #2
478098	MONITORING WELL #2
477824	
477823	
477821	

1-Mile Radius Well Search  
Alliance 51st Street LLC  
1646 South 51st Street  
Philadelphia, Pennsylvania

Pennsylvania Well ID	Remark
477819	The site is at the Grays Ferry Shopping Center: 30th Street & Grays Ferry Ave. Phila. Pa
477745	
477165	
475994	
475994	
475993	MW9. LAT-LONG COORDINATES AS PROVIDED FOR THIS RECORD PLOT ON 34TH ST - MAY BE AN OFF-SITE WELL.
475993	
475283	
475283	
475171	
475171	MW8.
475171	MW8.
475170	MW7.
475170	MW7.
475169	MW6. LAT-LONG COORDINATES AS PROVIDED FOR THIS RECORD PLOT ON 34TH ST - MAY BE AN OFF-SITE WELL.
475169	MW6. LAT-LONG COORDINATES AS PROVIDED FOR THIS RECORD PLOT ON 34TH ST - MAY BE AN OFF-SITE WELL.
475168	MW5. LAT-LONG COORDINATES AS PROVIDED FOR THIS RECORD PLOT ON 34TH ST - MAY BE AN OFF-SITE WELL.
475168	MW5. LAT-LONG COORDINATES AS PROVIDED FOR THIS RECORD PLOT ON 34TH ST - MAY BE AN OFF-SITE WELL.
473933	
424578	
424577	
424576	
424572	
424571	
424570	
424565	
424514	
424513	
424512	
424511	
424510	
424509	
424508	
424507	
424506	
424505	
424503	
424490	
424487	
424479	
424478	
424477	
424476	
424475	
424474	
424473	
424472	
424471	
424470	
424469	
424468	
424467	
424466	
424462	
424461	
424457	
30470	
30470	
30468	
30468	
30467	
30462	
30460	

1-Mile Radius Well Search  
Alliance 51st Street LLC  
1646 South 51st Street  
Philadelphia, Pennsylvania

Pennsylvania Well ID	Remark
30446	
30446	
30446	
30444	
30444	
30444	
30444	
30443	
30443	
30439	
30439	
30439	
29937	
29937	
29930	
29927	
29926	
29925	
29918	
29918	
29918	
29918	
29915	
29905	
29904	
29901	
29900	
29900	
29898	
29896	
29895	
29877	
29876	
29875	
29865	
29865	
29863	
29863	
29862	
29860	
29857	
29855	
136068	CAS MAT=STEEL; ROCK TYPE=GNEISS; USGS PH-745

# APPENDIX C

## National Wetlands Inventory





U.S. Fish and Wildlife Service

# National Wetlands Inventory

## Site Location Map



February 6, 2023

### Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

# APPENDIX D

Pennsylvania Natural Diversity Inventory Survey and Pennsylvania  
Department of Conservation and Natural Resources and Pennsylvania  
Fish & Boat Commission Clearance Letters



## 1. PROJECT INFORMATION

Project Name: **Proposed Industrial Development**

Date of Review: **6/2/2022 09:14:48 AM**

Project Category: **Development, New commercial/industrial development (store, gas station, factory)**

Project Area: **19.74 acres**

County(s): **Philadelphia**

Township/Municipality(s): **PHILADELPHIA**

ZIP Code:

Quadrangle Name(s): **PHILADELPHIA**

Watersheds HUC 8: **Schuylkill**

Watersheds HUC 12: **City of Philadelphia-Schuylkill River**

Decimal Degrees: **39.935397, -75.209306**

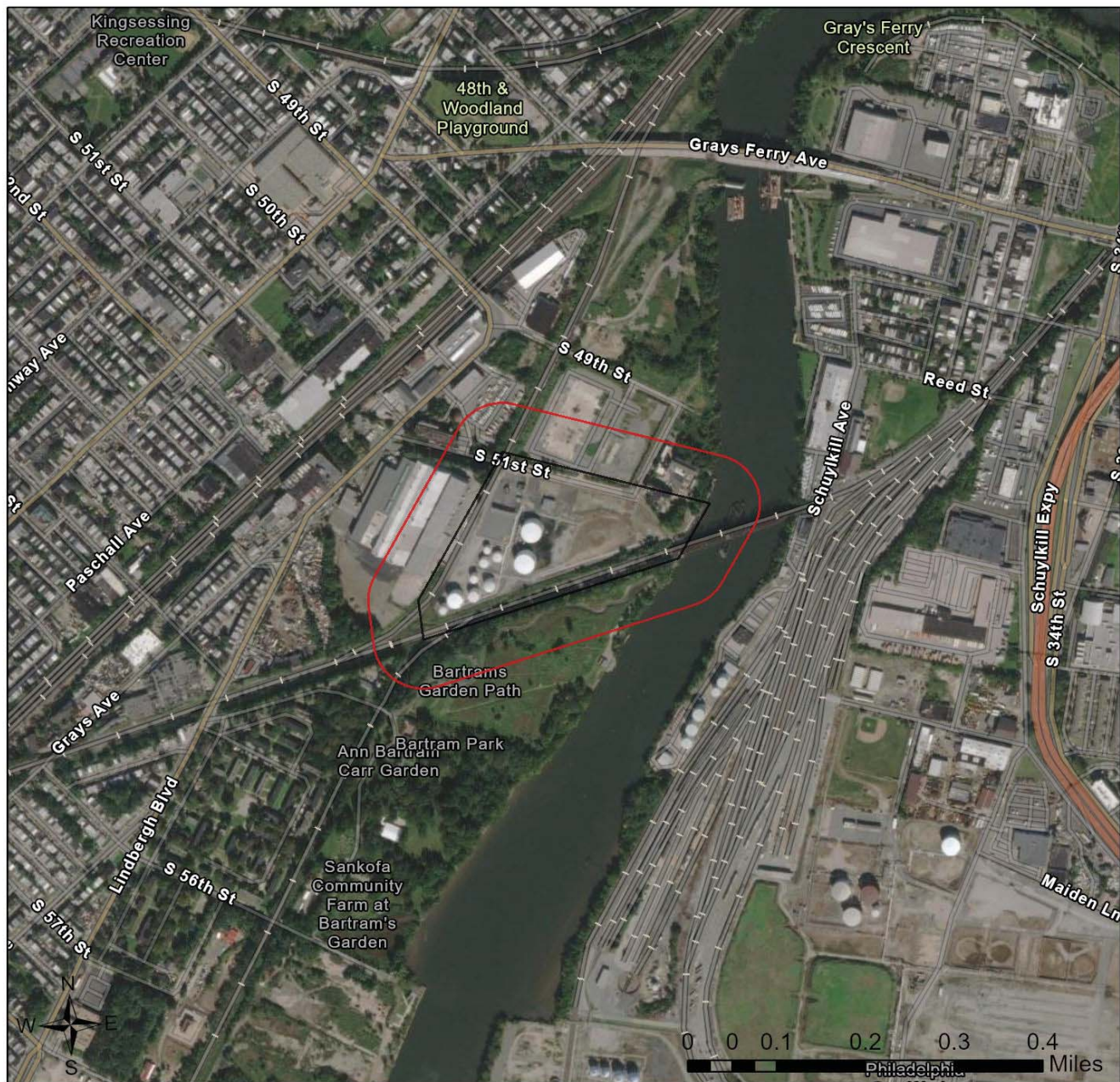
Degrees Minutes Seconds: **39° 56' 7.4304" N, 75° 12' 33.5030" W**

## 2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	<b>Potential Impact</b>	<b>FURTHER REVIEW IS REQUIRED, See Agency Response</b>
PA Fish and Boat Commission	<b>Potential Impact</b>	<b>FURTHER REVIEW IS REQUIRED, See Agency Response</b>
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

## Proposed Industrial Development

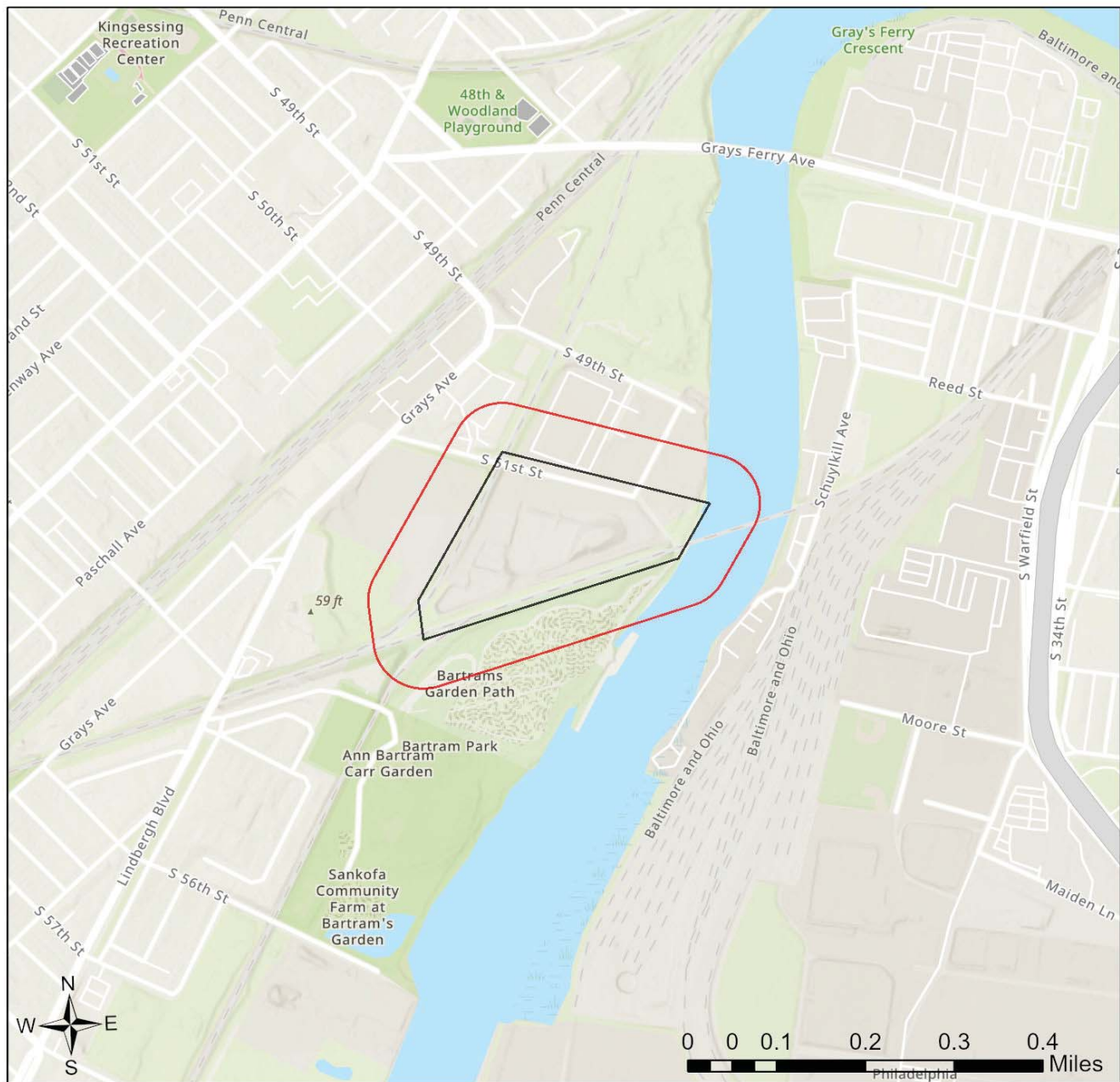




- Buffered Project Boundary
- Project Boundary



Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community

## Proposed Industrial Development



-  Buffered Project Boundary
-  Project Boundary



Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community

## RESPONSE TO QUESTION(S) ASKED

**Q1:** Accurately describe what is known about wetland presence in the project area or on the land parcel. "Project" includes all features of the project (including buildings, roads, utility lines, outfall and intake structures, wells, stormwater retention/detention basins, parking lots, driveways, lawns, etc.), as well as all associated impacts (e.g., temporary staging areas, work areas, temporary road crossings, areas subject to grading or clearing, etc.). Include all areas that will be permanently or temporarily affected -- either directly or indirectly -- by any type of disturbance (e.g., land clearing, grading, tree removal, flooding, etc.). Land parcel = the lot(s) on which some type of project(s) or activity(s) are proposed to occur.

**Your answer is:** The project area (or land parcel) has not been investigated by someone qualified to identify and delineate wetlands (holding a natural resource degree or equivalent work experience), or it is currently unknown if the project or project activities will affect wetlands.

**Q2:** Aquatic habitat (stream, river, lake, pond, etc.) is located on or adjacent to the subject property and project activities (including discharge) may occur within 300 feet of these habitats?

**Your answer is:** Yes

**Q3:** Select the statement below that accurately describes where the proposed project and project-associated activities will occur. "Project" includes all features of the project (including buildings, roads, utility lines, outfall and intake structures, wells, stormwater retention/detention basins, parking lots, driveways, lawns, etc.), as well as all associated impacts (e.g., temporary staging areas, work areas, temporary road crossings, areas subject to grading or clearing, etc.).

**Your answer is:** This project and all project activities will occur at least 100 feet from all waterways and waterbodies (rivers, creeks, streams, tributaries, lakes, ponds).

### 3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jurisdictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

#### PA Game Commission

##### RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

#### PA Department of Conservation and Natural Resources

##### RESPONSE:

Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

**DCNR Species:** (Note: The Pennsylvania Conservation Explorer tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below. After desktop review, if a botanical survey is required by DCNR, we recommend the DCNR Botanical Survey Protocols, available here:

<https://conservationexplorer.dcnr.pa.gov/content/survey-protocols>)

Scientific Name	Common Name	Current Status	Proposed Status	Survey Window
Amaranthus cannabinus	Waterhemp Ragweed	Special Concern Species*	Special Concern Species*	Flowers July - September
Schoenoplectus fluviatilis	River Bulrush	Special Concern Species*	Special Concern Species*	Fruits June - August

## PA Fish and Boat Commission

### RESPONSE:

Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

**PFBC Species:** (Note: The Pennsylvania Conservation Explorer tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below.)

Scientific Name	Common Name	Current Status
Sensitive Species**		Threatened

## U.S. Fish and Wildlife Service

### RESPONSE:

No impacts to **federally** listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq. is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

\* Special Concern Species or Resource - Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.

\*\* Sensitive Species - Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

## WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, upload\* or email the following information to the agency(s) (see AGENCY CONTACT INFORMATION). Instructions for uploading project materials can be found [here](#). This option provides the applicant with the convenience of sending project materials to a single location accessible to all three state agencies (but not USFWS).

\*If information was requested by USFWS, applicants must email, or mail, project information to [IR1\\_ESPenn@fws.gov](mailto:IR1_ESPenn@fws.gov) to initiate a review. USFWS will not accept uploaded project materials.

### Check-list of Minimum Materials to be submitted:

\_\_\_\_ Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted.

\_\_\_\_ A map with the project boundary and/or a basic site plan (particularly showing the relationship of the project to the physical features such as wetlands, streams, ponds, rock outcrops, etc.)

**In addition to the materials listed above, USFWS REQUIRES the following**

\_\_\_\_ **SIGNED** copy of a Final Project Environmental Review Receipt

### The inclusion of the following information may expedite the review process.

\_\_\_\_ Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)

\_\_\_\_ Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams.

## 4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. Two review options are available to permit applicants for handling PNDI coordination in conjunction with DEP's permit review process involving either T&E Species or species of special concern. Under sequential review, the permit applicant performs a PNDI screening and completes all coordination with the appropriate jurisdictional agencies prior to submitting the permit application. The applicant will include with its application, both a PNDI receipt and/or a clearance letter from the jurisdictional agency if the PNDI Receipt shows a Potential Impact to a species or the applicant chooses to obtain letters directly from the jurisdictional agencies. Under concurrent review, DEP, where feasible, will allow technical review of the permit to occur concurrently with the T&E species consultation with the jurisdictional agency. The applicant must still supply a copy of the PNDI Receipt with its permit application. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. The applicant and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <https://conservationexplorer.dcnr.pa.gov/content/resources>.



## 5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page ([www.naturalheritage.state.pa.us](http://www.naturalheritage.state.pa.us)). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

## 6. AGENCY CONTACT INFORMATION

### PA Department of Conservation and Natural Resources

Bureau of Forestry, Ecological Services Section  
400 Market Street, PO Box 8552  
Harrisburg, PA 17105-8552  
Email: [RA-HeritageReview@pa.gov](mailto:RA-HeritageReview@pa.gov)

### PA Fish and Boat Commission

Division of Environmental Services  
595 E. Rolling Ridge Dr., Bellefonte, PA 16823  
Email: [RA-FBPACENOTIFY@pa.gov](mailto:RA-FBPACENOTIFY@pa.gov)

### U.S. Fish and Wildlife Service

Pennsylvania Field Office  
Endangered Species Section  
110 Radnor Rd; Suite 101  
State College, PA 16801  
Email: [IR1\\_ESPenn@fws.gov](mailto:IR1_ESPenn@fws.gov)  
NO Faxes Please

### PA Game Commission

Bureau of Wildlife Management  
Division of Environmental Review  
2001 Elmerton Avenue, Harrisburg, PA 17110-9797  
Email: [RA-PGC\\_PNDI@pa.gov](mailto:RA-PGC_PNDI@pa.gov)  
NO Faxes Please

## 7. PROJECT CONTACT INFORMATION

Name: Santiago Uribe, P.E.

Company/Business Name: Bohler Engineering PA, LLC

Address: 1515 Market Street, Suite 920

City, State, Zip: Philadelphia, PA 19102

Phone: (267) 402-3400

Fax: ( )

Email: suribe@bohlereng.com

## 8. CERTIFICATION

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.



applicant/project proponent signature

6/2/2022

date

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**BUREAU OF FORESTRY**

June 7, 2022

**PNDI Number: 761020**

Version: Final\_1; 6/2/22

**Jordyn Strnad**

**Bohler Engineering**

1515 Market Street, Suite 920

Philadelphia, PA 19102

Email: jstrnad@bohlereng.com (hard copy will not follow)

**Re: Proposed Industrial Development**

**Philadelphia Township, Philadelphia County, PA**

Dear Jordyn Strnad,

Thank you for the submission of the Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Receipt Number **761020 (Final\_1)** for review. PA Department of Conservation and Natural Resources screened this project for potential impacts to species and resources under DCNR's responsibility, which includes plants, terrestrial invertebrates, natural communities, and geologic features only.

**No Impact Anticipated**

PNDI records indicate species or resources under DCNR's jurisdiction are located in the vicinity of the project. However, based on the information you submitted concerning the nature of the project, the immediate location, and our detailed resource information, DCNR has determined that no impact is likely. No further coordination with our agency is needed for this project.

**Recommended Best Management Practices:**

- Use a conservative approach to project design that minimizes permanent and temporary disturbances to soil and native vegetation. This will conserve habitat and limit opportunities for invasive plants.
- Clean boot treads, tools, construction equipment, and vehicles thoroughly (especially the undercarriage and wheels) before they are brought on site. This will remove invasive plant seeds and invasive earthworms/cocoons that may have been picked up at other worksites.
- Use clean project materials (e.g., weed-free straw) or materials native to the worksite to avoid introducing invasive species from contaminated sources.
- Revegetate or cover disturbed soil and stockpiles quickly to discourage the germination of invasive plants. Implement proper erosion control practices to stabilize soil and reduce runoff.
- Do not use seed mixes that include invasive species. More information about invasive plants in Pennsylvania can be found at the following link: <http://www.dcnr.pa.gov/Conservation/WildPlants/InvasivePlants/Pages/default.aspx>
- Use habitat appropriate seed mixes. For example, use a riparian seed mix when reseeding along a waterway. The Bureau of Forestry Planting & Seeding Guidelines can be found at the following link for recommendations: [http://www.docs.dcnr.pa.gov/cs/groups/public/documents/document/dcnr\\_20031083.pdf](http://www.docs.dcnr.pa.gov/cs/groups/public/documents/document/dcnr_20031083.pdf)
- Use native plants for landscaping, revegetation, and stormwater management. Do not use nonnative invasive species. Reduce the area of lawn and impermeable surfaces to the fullest extent practicable in favor of native gardens or habitat

**conserve**

**sustain**

**enjoy**

---

P.O. Box 8552, Harrisburg, PA 17015-8552 717-787-3444 (fax) 717-772-0271

restoration (e.g., forest, meadow, wetland, etc.). More information about lawn conversion can be found at the following link: <https://www.dcnr.pa.gov/Conservation/Water/LawnConversion/Pages/default.aspx>

This response represents the most up-to-date review of the PNDI data files and is valid for two (2) years only. If project plans change or more information on listed or proposed species becomes available, our determination may be reconsidered. Should the proposed work continue beyond the period covered by this letter and a permit has not been acquired, please resubmit the project to this agency as an "Update" (including an updated PNDI receipt, project narrative, description of project changes and accurate map). As a reminder, this finding applies to potential impacts under DCNR's jurisdiction only. Visit the PNHP website for directions on contacting the Commonwealth's other resource agencies for environmental review.

**Should you have any questions or concerns, please contact Alexander Dogonniuck, Ecological Information Specialist, by phone (717-783-3913) or via email (c-adogonni@pa.gov).**

Sincerely,



Greg Podniesinski, Section Chief  
Natural Heritage Section



## Pennsylvania Fish & Boat Commission

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### Division of Environmental Services

Natural Diversity Section  
595 E Rolling Ridge Dr.  
Bellefonte, PA 16823  
814-359-5237

June 14, 2022

#### IN REPLY REFER TO

SIR# 56265

Bohler Engineering, Inc.  
Jordyn Strnad  
1515 Market Street  
Philadelphia, Pennsylvania 19102

**RE: Species Impact Review (SIR) – Rare, Candidate, Threatened and Endangered Species  
PNDI Search No. 761020\_1  
Proposed Industrial Development  
PHILADELPHIA County: Philadelphia City**

Dear Jordyn Strnad:

This responds to your inquiry about a Pennsylvania Natural Diversity Inventory (PNDI) Internet Database search “potential conflict” or a threatened and endangered species impact review. These projects are screened for potential conflicts with rare, candidate, threatened or endangered species under Pennsylvania Fish & Boat Commission jurisdiction (fish, reptiles, amphibians, aquatic invertebrates only) using the Pennsylvania Natural Diversity Inventory (PNDI) database and our own files. These species of special concern are listed under the Endangered Species Act of 1973, the Wild Resource Conservation Act, and the Pennsylvania Fish & Boat Code (Chapter 75), or the Wildlife Code.

An element occurrence of a rare, candidate, threatened, or endangered species under our jurisdiction is known from the vicinity of the proposed project. However, given the nature of the proposed project, the immediate location, or the current status of the nearby element occurrence(s), no adverse impacts are expected to the species of special concern.

This response represents the most up-to-date summary of the PNDI data and our files and is valid for two (2) years from the date of this letter. An absence of recorded species information does not necessarily imply species absence. Our data files and the PNDI system are continuously being updated with species occurrence information. Should project plans change or additional information on listed or proposed species become available, this determination may be reconsidered, and consultation shall be re-initiated.

#### Our Mission:

[www.fish.state.pa.us](http://www.fish.state.pa.us)

*To protect, conserve and enhance the Commonwealth's aquatic resources and provide fishing and boating opportunities.*

**If you have any questions regarding this review, please contact Josh Brown at 814-359-5129 and refer to the SIR # 56265.** Thank you for your cooperation and attention to this important matter of species conservation and habitat protection.

Sincerely,

A handwritten signature in black ink, reading "Christopher A. Urban". The signature is written in a cursive, flowing style.

Christopher A. Urban, Chief  
Natural Diversity Section

CAU/JRB/dn

**Arcadis U.S., Inc.**

1 Harvard Way, Suite 5  
Hillsborough  
New Jersey 08844  
Tel 908.526.1000  
Fax 908.253.3295

[www.arcadis.com](http://www.arcadis.com)