SOIL MANAGEMENT PLAN

Former Frog, Switch & Manufacturing Co. Site

600 East High Street
Carlisle Borough and North Middleton Township
Cumberland County
Pennsylvania

Prepared For:

REC FS, LLC

BL Project No. 2500400

March 13, 2026/Updated August 24, 2026

Prepared By:

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1.0 INTRODUCTION

1.1 PURPOSE

This updated Soil Management Plan (SMP) has been prepared in relation to the planned redevelopment activities to be completed at the property located at 600 East High Street in the Borough of Carlisle and North Middleton Township, Cumberland County, Pennsylvania (herein referred to as the "Site" or "Subject Property"). The redevelopment activities include demolition of the existing structures (including the removal/disposal of residual foundry sand from within the Foundry building and removal of heavy industrial machinery/equipment from the structures), interim grading activities necessary to stabilize the Site following demolition, and the eventual construction of one or more new structures on the Site. The future use of the Site and nature of the redevelopment (i.e., number/types/locations of structures) are not yet known as of the date of this SMP.

The purpose of the SMP is to provide guidance to Contractor(s) on the proper handling and disposal of materials excavated in connection with the demolition and interim grading activities planned for the Site. This SMP is not applicable to any excavation or disturbance activities in the Former Landfill area of the Site (as shown on the attached Site Plan); that portion of the Site is subject to certain restrictions and activity and use limitations specified within a 2025 Environmental Covenant.

The overall purpose of the SMP is to define a program for handling, segregating, and disposing of potentially impacted soil that may be encountered during the demolition and interim grading activities proposed for the Site. Specifically, the SMP identifies a protocol for managing environmentally impacted soil, including the need for temporary stockpiling of the material prior to removal from the Site for proper off-Site disposal (if necessary), or the reuse of soil on-Site in a designated area(s).

The information presented in this SMP provides general guidelines for soil management during the project based upon BL Companies' current understanding of the Site and project parameters. The specific details and logistics of implementing this SMP shall be developed by the Contractor(s) and those administering construction in accordance with the contract documents. ***This plan is not intended to provide detail with regard to Site-specific health and safety procedures. Specific information regarding health and safety procedures and protective measures should be implemented according to the Contractor's own internal company policies.***

1.2 Current Site Development

In March 2026, the Site consisted of a former foundry and machine shop with several other operation and storage buildings, and was comprised of 11 contiguous parcels totaling approximately 27 acres. Since then, the majority of the buildings have undergone demolition to slab/ground level. The Site continues to be vacant and currently consists only of the Office building and several building foundations (including that of the Foundry

and Frog Shop). A Site Location Map is provided as Attachment 1, Figure 1, and a Site Plan showing pertinent Site development is provided as Attachment 1, Figure 2.

1.3 Proposed Site Development

It is BL Companies' understanding that the Office building will remain to be renovated and incorporated into the future redevelopment plans while the remaining building foundations are slated for removal and regrading to allow for future redevelopment and adaptive reuse of the property. It should be noted that this SMP is specific to certain areas of the Site, deals only with subsurface excavation activities, and does not address the management of building construction and demolition (C&D) waste or the handling and disposal of any hazardous or non-hazardous building materials.

2.0 SITE HISTORY AND SITE CONDITIONS

According to research completed by BL Companies, the parcels that comprise the Site have operated as the Carlisle Manufacturing Co. since 1885, with buildings along the northwest perimeter, a Car Works complex (including woodworking, machinery building, and a foundry) in the central southern portion, a lumber yard in the southwest, and numerous rail spurs entering the Site from the northwest. The operations continued to expand with core buildings (e.g., Foundry Complex, Frog Shop) being developed and various out-buildings being demolished and replaced over time. Sometime between 1890 and 1896, the Site became known as the Carlisle Manufacturing Company, Frog and Switch Works. Other Site operators/tenants have also occupied various spaces over time (e.g., Cooper Heater Co–circa 1915; Abel–2025). The northeastern portion of the Site began to show landfill-like disturbances in the mid-1960s, and those activities continued to expand through the 1980s. By 2010, the area appeared to have been regraded and vegetated with grass. The Subject Property historically operated as the Frog, Switch & Manufacturing Co. (foundry) producing railroad-related parts until the mid-1950s to 1960s, when operations phased to producing parts for crushers. The last foundry pour occurred in 2023, and operations at the Site have since consisted of decommissioning and dismantling/scrapping machines and stripping the buildings of wiring and other reusable components.

2.1 Previous Investigations

BL Companies has reviewed or completed the following investigations at the Site:

Report	Consultant	Date
Phase I Environmental Site Assessment (ESA)	Rettew	February 2021
Phase I ESA	BL Companies	April 2025
Phase II Limited Site Investigation (LSI)	Volpe (EPA contractor)	February 2026
Supplemental Phase II LSI	Volpe (EPA contractor)	August 2026

Full copies of these reports/data are available upon request.

Key findings from these investigations pertinent to this SMP are summarized below:

An Initial Soil Investigation, followed by a Supplemental Soil Investigation, was completed throughout the Site by the US Department of Transportation Volpe Center (Volpe), an EPA contractor. The Initial Investigation completed a total of 21 soil borings at the Site with a total of 43 soil samples collected for laboratory analysis. The Supplemental Investigation completed an additional 35 soil borings with 121 associated soil samples collected for analysis. The borings ranged in depth from approximately 5 to 32 feet below the ground surface (bgs), and groundwater was not encountered at any of the tested

locations. A Soil Sample Location Map is included as Attachment 1, Figure 3 and the Soil Boring Logs are included as Attachment 2.

The soil samples collected from the borings during the Initial Soil Investigation were analyzed for a combination of compounds and metals specifically selected based on the historic use of the Site, the findings of the 2025 Phase I ESA, and industry standards, herein referred to as "constituents of concern" (COCs). The COCs selected included inorganics (metals and free cyanide), volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), dioxins and furans, and total solids. The soil boring locations and analyses of the Supplemental Soil Investigation were chosen to further delineate (both vertically and horizontally) the COCs identified in the samples collected during the Initial Investigation.

Below is a brief summary of the findings of both Phase II investigations completed by Volpe:

- VOCs and PCBs – no concentrations were detected in exceedance of applicable PADEP Statewide Health Standards (SHSs).

- SVOCs – four of the samples contained at least one compound that exceeded the most stringent (residential) direct contact standard, but below the non-residential standards. The exceedances were also limited to surficial locations where soil staining had been observed. In addition, SVOCs of this nature are often by-products of the burning of fossil fuels and are very common in soil at historic industrial facilities.

- Dioxins and furans – only the soil sample collected from the area of the July 2025 fire (east side of Frog Shop) was analyzed for these constituents. No concentrations were identified in excess of applicable PADEP SHSs.

- Metals – arsenic, cobalt, iron, and manganese were each detected in some of the soil samples at concentrations above their respective applicable PADEP standards. Iron was detected in one sample, and cobalt was detected in two samples at levels above applicable PADEP standards. Manganese, which was historically utilized at the Site for the manufacturing of manganese steel castings for crushers, was detected in three of the shallow soil samples at concentrations above the applicable PADEP standard. Arsenic was identified in 40 of the soil samples at levels above the applicable PADEP standard, one of which was above the non-residential PADEP SHS.

The data summary table is included in Attachment 3.

During the Supplemental Phase II, free product and visible/olfactory evidence of petroleum impact was identified near the southeast corner of the Foundry building in Volpe's SB-212. Volpe reported the free product at a depth interval of between 5 and 7

feet bgs. This location appears to coincide with a No. 6 fuel oil UST (identified as “Old #2”) that was reportedly closed in-place prior to 1990. Other borings advanced by Volpe in the same general area of the Site did not identify petroleum impacts.

3.0 MANAGEMENT OF EXCAVATED MATERIAL

Based on the previously completed subsurface investigations at the Site, the following provisions shall apply to the anticipated earthwork activities:

1. BL Companies is the designated Environmental Professional (EP) who will direct the handling and management of soils at the Site that have been or may be affected by regulated substances.

   The contact information for the BL Companies' EP is:

   John Thatcher, P.G., Senior Project Manager
   Cell Phone: 717-317-0353
   Office Phone: 717-943-1675
   jthatcher@blcompanies.com

2. Due to the nature of the COCs that were primarily identified in soil (SVOCs/metals), obvious evidence of environmental impact (e.g., petroleum/chemical odors, staining/discoloration, etc.) may not be encountered. However, Contractor(s) should be aware that soils exhibiting visible/olfactory indications of impact may be present. To the extent possible, any excavated materials should be reused as backfill into the trenches or excavations from which they came, to limit the amount of material to be exported to other areas of the Site or for off-Site disposal. If possible, moving soils long distances across the Site away from their point of origin should be avoided. Excess materials that cannot be used as backfill from their point of origin should only be placed at a designated staging area(s) or for grading of areas around the new building.

3. If at any time the Contractor(s) discovers soils or materials that are suspected of being contaminated (i.e., exhibiting petroleum or chemical odors and/or visibly stained or discolored), the excavation shall cease immediately, and the Contractor(s) shall contact the EP for guidance. The EP will mobilize to the Site in due course to evaluate the soils for proper handling, document the location/conditions, and field-screen the excavated materials for the presence of VOC vapors, which can be indicative of volatile chemicals or petroleum hydrocarbons. In the event that samples are collected by the EP for laboratory analysis, excavation activities in the affected area may need to be postponed pending analytical results and/or further discussion with the project team.

4. The EP or Project Manager (PM) shall have an initial meeting with the Contractor(s) prior to the start of excavation activities to review the construction sequencing and details of this SMP. The EP will work with the Contractor(s) to determine an appropriate frequency (if any) for field oversight based on an evaluation of the materials encountered, the locations and depths of excavations planned, and the excavation schedule. The Contractor(s) shall provide daily updates to the EP and the BL Companies PM, describing progress from the current

day and the locations of planned work for the upcoming work day. An alternate frequency for updates may be agreed upon by the Contractor(s) and EP/PM.

5. If any of the excavated materials cannot be reused on-Site, the EP will help determine and coordinate an alternate on-Site location, or if needed, appropriate off-Site disposal options. Any off-Site disposal option will require additional waste characterization sampling and coordination to be managed by the EP.

6. The excavation Contractor(s) will be responsible for importing any and all clean backfill material that meets appropriate engineering specifications, per the construction specifications and bid documents. Any additional fill needed to balance the Site shall either be imported from a quarry or otherwise consist of uncontaminated backfill or cover material.

7. Although generally not anticipated, if groundwater is encountered during the Site excavation activities, the EP should be notified to determine an appropriate course of action.

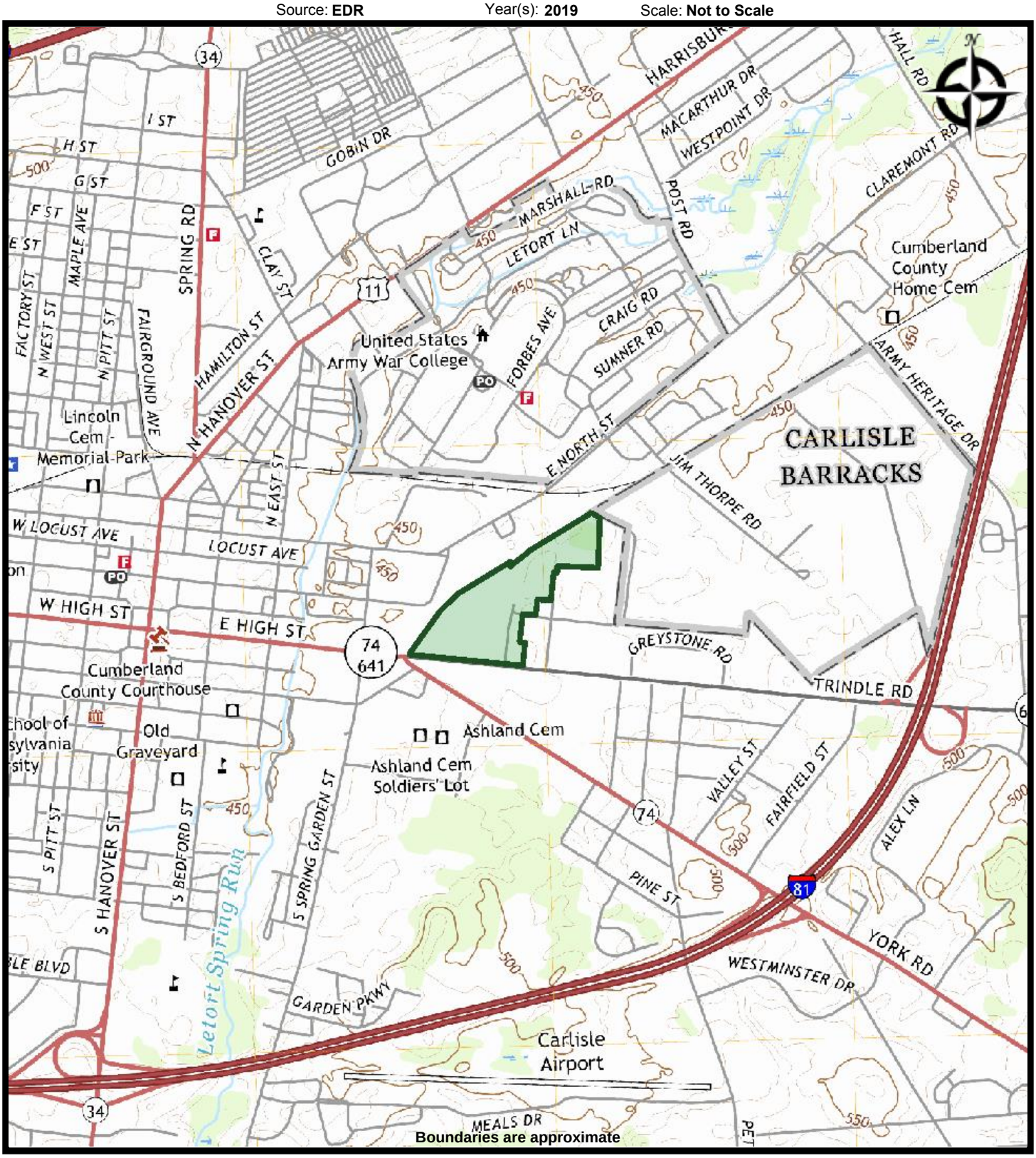
The above guidelines are based on the subsurface conditions known or reported to exist at the time this SMP was prepared. If substantially different or unforeseen Site conditions are encountered during the excavation activities, the above guidelines may be modified by the EP as appropriate.

Attachment 1

Site Location Map
Site Plan
Soil Sample Location Map

Image Provided By EDR USGS Topographic Maps

Source: **EDR** Year(s): **2019** Scale: **Not to Scale**



Architecture
Engineering
Environmental
Land Surveying

BL Companies

FIGURE 1 - SITE LOCATION MAP
FROG, SWITCH & MANUFACTURING COMPANY
600 East High Street
Carlisle, Pennsylvania 17013

PREPARED FOR: Cumberland County Area Economic Development C

DRAWN BY: Niomi Phillips **DATE: 3/25/2025**

IMAGE YEAR: 2019 **PROJ. #: 2500400**



Architecture
Engineering
Environmental
Land Surveying

BL Companies

FIGURE 2 - SITE PLAN

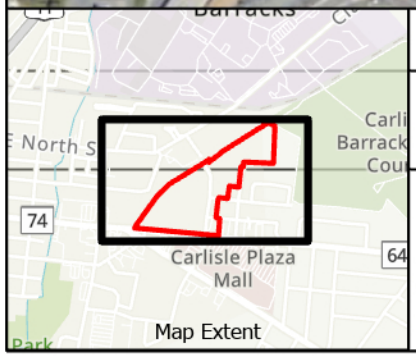
FROG, SWITCH & MANUFACTURING COMPANY

600 EAST HIGH STREET

CARLISLE, CUMBERLAND COUNTY, PENNSYLVANIA

Scale:	NOT TO SCALE
Project Number:	2500400
Date:	03/13/2025





FORMER FROG SWITCH & MANUFACTURING - SOIL SAMPLE LOCATION MAP

GRAPHIC SCALE

300 150 0 300 600 900 1,200 US Feet

DRAWN BY: NJP

PROJECT NO: 2500400

CHECKED BY: JRT

Figure 3

Legend

- Approximate Site Boundary
- Sample Locations
- Areas of Concern (Closed)

600 E High Street
Carlisle Borough and North Middleton Township
Cumberland County, Pennsylvania

BL Companies
Architecture
Engineering
Environmental
Land Surveying

2601 Market Place,
Suite 350,
Harrisburg, PA 17110
(717) 651-9850

Esri, USDA FSA, Esri, Vantor, Earthstar Geographics, and the GIS User Community, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community

Attachment 2

Soil Boring Logs

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-201

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by E. Paleo **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 15 ft. **Location** 316668.7 N 2128678.0 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 455.5 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/23/2026 **Date Completed** 06/23/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.4	28 / 60 in.	0-12" **Concrete**
2.0		0.5		12-20" brown/dark gray **Gravel** mixed with crushed stone and coarse sand
3.0		0.5		20-28" brown **silty Clay**
4.0		0.4		
5.0		0.4		28-60" No Recovery
6.0		0.6		
7.0		0.6		
8.0		0.5	60 / 60 in.	0-60" brown **silty Clay**
9.0		0.5		
10.0		0.5		
11.0		0.5		
12.0		0.5		
13.0		0.4	60 / 60 in.	0-60" brown **silty Clay** with some fall-in
14.0		0.4		
15.0		0.4		
16.0		0.4		End of Boring
17.0		0.4		
18.0		0.4		
19.0		0.4		
20.0		0.4		
21.0		0.4		
22.0		0.4		
23.0		0.4		
24.0		0.4		
25.0		0.4		

Notes: PID Background: 0.4 ppm
FROG-SS-201(1.0-2.0) collected at 0917
FROG-SS-201(4.5-5.0) collected at 0924
FROG-SS-201(9.5-10.0) collected at 0926 (FROG-SS-MS/MSD-202 collected here)
FROG-SS-201(14.5-15.0) collected at 0932

Preliminary Draft

Project Frog Switch Phase II ESA

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-101

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by L. Cesic **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 5 ft. **Location** 316823.0 N 2128462.1 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 454.1 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/17/2025 **Date Completed** 10/17/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.0	44 / 60 in.	0-6" **Asphalt**
		0.0		6-10" black **silt Loam** with pebbles up to 1/2 in., moist, no odor, no staining
2.0		0.0		
		0.0		10-44" brown **silty Clay** with gray crushed limestone mixed into bottom 7"., moist, no odor, no staining
3.0		0.0		
4.0		0.0		
				44"-60" No Recovery
5.0				
6.0				Refusal at Limestone
7.0				
8.0				
9.0				
10.0				
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: FROG-SS-101(0.0-2.0) collected at 1240
FROG-SS-101(3.0-5.0) collected at 1241
FROG-SS-FB-103 collected at 1210

Preliminary Draft

Boring Log

U.S. Department of Transportation Volpe Center

Project Frog Switch Phase II ESA	**Boring ID** FROG-SB-102	
Location Frog, Switch & Manufacturing Co., Carlisle, PA		
Sponsor U.S. EPA Region 3 Brownfields	**Permit #** N/A	

Logged by L. Cesic **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 21 ft. **Location** 316841.1 N 2128458.0 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 454.3 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/17/2025 **Date Completed** 10/17/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.0	18 / 60 in.	0-18" brown **silty Clay** with pebbles in the bottom ft. and roots, moist, no odor, no staining
2.0		0.0		
3.0		0.0		
4.0				18-60" No Recovery
5.0				
6.0		0.0	36 / 60 in.	0-12" Concrete
7.0		0.0		12-36" brown **silty Clay**, moist, no odor, no staining
8.0		0.0		
9.0		0.0		36-60" No Recovery
10.0				
11.0		0.0	50 / 60 in.	0-50" brown **silty Clay** with concrete from 7-9", moist, no odor, no staining
12.0		0.0		
13.0		0.0		
14.0		0.0		
15.0		0.0		50-60" No Recovery
16.0		0.0	16 / 60 in.	0-16" brown **silty Clay**, high moisture content, no odor, no staining
17.0		0.0		
18.0		0.0		
19.0				16-60" No Recovery
20.0				
21.0		0.0	12/12	0-12" brown **silty Clay**, high moisture content, no odor, no staining
22.0		0.0		
23.0				Refusal at Limestone
24.0				
25.0				

Notes: FROG-SS-102(0.0-2.0) collected at 1345
FROG-SS-102(19.0-21.0) collected at 1351

Preliminary Draft

Project Frog Switch Phase II ESA

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-103

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by L. Cesic **Checked by** J. Klaybor **Page** 1 of 2

Boring Depth 30 ft. **Location** 316426.4 N 2128975.0 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 457.4 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/15/2025 **Date Completed** 10/15/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.0	60 / 60 in.	0-4" dark brown **sandy Loam** with moss, moist, no odor, no staining
2.0		0.0		4-36" reddish brown **silty Clay** with light brown and gray granules and pebbles up to 1/2 in. mixed in, moist, no odor, no staining
3.0		0.0		
4.0		0.0		
5.0		0.0		36-60" reddish brown **silty Clay**, moist, no odor, no staining
6.0		0.0	60 / 60 in.	0-30" reddish brown **silty Clay** with some black fine to medium sand mixed in, moist, no odor, no staining
7.0		0.0		
8.0		0.0		
9.0		0.0		30-60" brown **silty Clay**, moist, no odor, no staining
10.0		0.0		
11.0		0.0	60 / 60 in.	0-60" brown **silty Clay**, moist, no odor, no staining
12.0		0.0		
13.0		0.0		
14.0		0.0		
15.0		0.0		
16.0		0.0	60 / 60 in.	0-60" brown **silty Clay**, moist, no odor, no staining
17.0		0.0		
18.0		0.0		
19.0		0.0		
20.0		0.0		
21.0		0.0	42 / 60 in.	0-24" brown **silty Clay** with black sand and roots at 12", moist, no odor, no staining
22.0		0.2		
23.0		8.2		24-42" light brown **Clay**, high moisture content beginning at 30", no odor, no staining
24.0		50.4		
25.0		47.2		42-60" No Recovery

Notes: FROG-SS-103(0.0-2.0) collected at 1445
FROG-SS-103(28.0-30.0) collected at 1513
FROG-SS-FB-101 collected at 1530

Preliminary Draft

Project Frog Switch Phase II ESA

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-103

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by L. Cesic **Checked by** J. Klaybor **Page** 2 of 2

Boring Depth 30 ft. **Location** 316426.4 N 2128975.0 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 457.4 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/15/2025 **Date Completed** 10/15/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
25.0				
26.0		0.0	60 / 60 in.	0-42" brown **silty Clay**, moist, no odor, no staining
27.0		0.0		
28.0		0.0		
29.0		1.7		
30.0		0.7		
31.0		14.0		42-60" brown and dark gray **silty Clay**, high moisture content, no odor, no staining
32.0		35.0		
33.0		60.9		
34.0				Refusal at Limestone
35.0				
36.0				
37.0				
38.0				
39.0				
40.0				
41.0				
42.0				
43.0				
44.0				
45.0				
46.0				
47.0				
48.0				
49.0				
50.0				

Notes: FROG-SS-103(0.0-2.0) collected at 1445
FROG-SS-103(28.0-30.0) collected at 1513
FROG-SS-FB-101 collected at 1530

Preliminary Draft

Project Frog Switch Phase II ESA

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-104

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by L. Cesic **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 11.5 ft. **Location** 316418.0 N 2129014.0 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 457.6 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/15/2025 **Date Completed** 10/15/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.0	60 / 60 in.	0-5" dark brown **sandy Loam** with grass and organic material, moist, no odor, no staining
2.0		0.0		
3.0		0.0		5-60" brown **silty Clay**, moist, no odor, no staining
4.0		0.0		
5.0		0.0		
6.0		0.0	60 / 60 in.	0-12" brown **silty Clay** with dark brown fine to medium sand mixed in, moist, no odor, no staining
7.0		0.0		
8.0		0.0		12-60" brown **silty Clay**, moist, no odor, no staining
9.0		0.0		
10.0		0.0		
11.0		0.0	18/18	0-18" brown silty Clay with fine to medium sand fall in and crushed limestone mixed in, moist, no odor, no staining
12.0		0.0		
13.0				Refusal at Limestone
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: FROG-SS-104(0.0-2.0) collected at 1343
FROG-SS-104(10.0-11.5) collected at 1347 (FROG-SS-MS/MSD-101 collected here)

Preliminary Draft

Boring Log

U.S. Department of Transportation Volpe Center

Project Frog Switch Phase II ESA	**Boring ID** FROG-SB-105	
Location Frog, Switch & Manufacturing Co., Carlisle, PA		
Sponsor U.S. EPA Region 3 Brownfields	**Permit #** N/A	

Logged by L. Cesic **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 20 ft. **Location** 316443.9 N 2129016.4 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 457.2 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/15/2025 **Date Completed** 10/15/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.0	48 / 60 in.	0-12" **Concrete**
2.0		0.0		
3.0		0.4		12-36" **Urban Fill**, brown and black silty Clay Loam with pebbles up to 1/2 in., gravel, and glass, moist, petroleum-like odor
4.0		0.6		
5.0		3.2		
6.0		0.9		36-48" brown **silty Clay**, moist, no odor, no staining
7.0		1.3		
8.0		1.3		48-60" No Recovery
9.0		3.5	30 / 60 in.	
10.0		57.0		
11.0		52.3		0-30" brown **silty Clay** with a 3 in. thick layer of concrete at 7", moist, no odor, no staining
12.0		94.2		
13.0		55.8		
14.0				30-60" No Recovery
15.0		6.3	60 / 60 in.	
16.0		17.7		
17.0		4.9		0-60" brown **silty Clay** with concrete dust fall in, moist, no odor, no staining
18.0		14.7		
19.0		60.4		
20.0		41.9		
21.0		37.7		
22.0		105.7		
23.0		3.3	48 / 60 in.	
24.0		10.0		
25.0		7.5		0-48" brown **silty Clay**, moist, no odor, no staining
		16.4		
		11.5		
		19.9		
		3.1		
		28.5		48-60" brown **Clay** with some layers of light gray sand, moist, no odor, no staining
		4.7		
				Refusal at Limestone

Notes: FROG-SS-105(1.0-3.0) collected at 1152
FROG-SS-105(13.0-15.0) collected at 1154

Preliminary Draft

Project Frog Switch Phase II ESA

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-108

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by L. Cesic **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 7.5 ft. **Location** 316445.6 N 2129152.0 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 458.0 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/15/2025 **Date Completed** 10/15/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.0	48 / 60 in.	0-12" **Gravel** mixed with crushed stone
2.0		0.0		12-18" dark gray **silt Loam** with pebbles up to 1 in., moist, no odor, no staining
3.0		0.0		18-30" black and light brown fine to medium **Sand** with granules, moist, no odor, no staining
4.0		0.0		30-48" brown **silty Clay**, moist, no odor, no staining
5.0		0.0		48-60" No Recovery
6.0		0.0	30 / 30 in.	0-30" brown **silty Clay** with gray crushed rock, moist, no odor, no staining
7.0		0.0		
8.0				Refusal at Limestone
9.0				
10.0				
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: FROG-SS-108(1.0-3.0) collected at 0950
FROG-SS-108(5.5-7.5) collected at 0956 (FROG-SS-DUP-101 collected here)

Preliminary Draft

Project Frog Switch Phase II ESA

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-109

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by L. Cesic **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 10 ft. **Location** 316528.5 N 2129167.0 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 457.9 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/15/2025 **Date Completed** 10/15/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.0	58 / 60 in.	0-32" **Gravel** mixed with crushed stone
2.0		0.0		
3.0		0.0		
4.0		0.0		32-58" brown **silty Clay** with some roots, moist, no odor, no staining
5.0		0.0		58-60" No Recovery
6.0		0.0	60 / 60 in.	0-60" brown **silty Clay** with some roots and granules mixed in, moist, no odor, no staining
7.0		0.0		
8.0		0.0		
9.0		0.0		
10.0		0.0		
11.0				Refusal at Limestone
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: FROG-SS-109(2.5-4.5) collected at 0858
FROG-SS-10(8.0-10.0) collected at 0847

Preliminary Draft

Project Frog Switch Phase II ESA

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-110

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by L. Cesic **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 13.5 ft. **Location** 316556.5 N 2129152.3 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 458.0 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/15/2025 **Date Completed** 10/15/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.0	54 / 60 in.	0-18" **Gravel** mixed with crushed stone
2.0		0.0 0.8 0.3		18-28" brown **silty Clay**, very compacted, moist, no odor, no staining
3.0		2.6 1.2		28-54" black fine to medium **Sand**, pebbles up to 1/2 in., moist, no odor, no staining, potential fill material
4.0		9.1		
5.0		1.3		54-60" No Recovery
6.0		1.5 1.3	58 / 60 in.	0-58" black fine to medium **Sand** with pebbles up to 1/2 in., moist, no odor, no staining, potential fill material
7.0		1.3		
8.0		0.9 1.4		
9.0		1.7 0.7		
10.0		1.5		58-60" No Recovery
11.0		2.1 0.8	42 / 42 in.	0-42" black fine to medium **Sand** with gravel fall in, moist, no odor, no staining, potential fill material
12.0		3.0		
13.0		1.7 4.9		
14.0		1.3		Refusal at Limestone
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: FROG-SS-110(1.5-3.5) collected at 1046
FROG-SS-110(5.0-7.0) collected at 1052

Preliminary Draft

Project Frog Switch Phase II ESA

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-111

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by L. Cesic **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 11 ft. **Location** 317023.6 N 2129052.2 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 456.1 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/16/2025 **Date Completed** 10/16/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.0	48 / 60 in.	0-12" brown **sandy Clay Loam** with grass at the surface, moist, no odor, no staining
2.0		0.0		12-20" dark brown fine to medium **Sand** under 1 in. layer of gray stone, moist, no odor, no staining
3.0		0.0		20-42" brown **silty Clay**
4.0		0.0		42-48" dark gray **Clay** with light brown very coarse Sand layers mixed in, moist, no odor, no staining
5.0		0.0		48-60" No Recovery
6.0		0.0	50 / 60 in.	0-14" dark gray **Clay** with light brown very coarse Sand layers mixed in, moist, no odor, no staining
7.0		0.0		
8.0		0.0		14-50" brown silty **Clay**, moist, no odor, no staining
9.0		0.0		
10.0		0.0		50-60" No Recovery
11.0		0.0	12/12	0-12" brown **silty Clay** over crushed limestone, moist, no odor, no staining
12.0				Refusal at Limestone
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: FROG-SS-111(0.0-2.0) collected at 1028
FROG-SS-111(10.0-11.0) collected at 1030

Preliminary Draft

Project Frog Switch Phase II ESA

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-112

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by L. Cesic **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 9 ft. **Location** 317057.1 N 2129058.5 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 456.2 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/16/2025 **Date Completed** 10/16/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.0	18 / 60 in.	0-18" black very fine to medium **Sand** with grass and pebbles up to 1 in. at the surface, moist, no odor, no staining
2.0		0.0		
3.0		0.1		18-60" No Recovery
4.0				
5.0				
6.0		0.0	18 / 48 in.	0-15" black very fine to medium **Sand** with gray medium to coarse Sand and gray pebbles mixed in, moist, no odor, no stain
7.0		0.0		15-18" brown **silty Clay**, moist, no odor, no staining
8.0		0.0		18-48" No Recovery
9.0				
10.0				Refusal at Limestone
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: FROG-SS-112(0.0-2.0) collected at 1120
FROG-SS-112(7.0-9.0) collected at 1122

Preliminary Draft

Project Frog Switch Phase II ESA

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-113

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by L. Cesic **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 8 ft. **Location** 316931.3 N 2128442.3 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 452.4 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/20/2025 **Date Completed** 10/20/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.0	36 / 60 in.	0-6" brown **Clay**, moist, no odor, no staining
		0.0		6-12" dark brown **silt Loam** with roots and pebbles up to 1/2 in.
2.0		0.0		
		0.0		12-36" brown **silty Clay**, moist, no odor, no staining
3.0		0.0		
4.0		0.0		
		0.0		36-60" No Recovery
5.0		0.0		
6.0		0.0	36 / 36 in.	
		0.0		0-36" brown **silty Clay** over limestone, moist, no odor, no staining
7.0		0.0		
8.0		0.0		
9.0				Refusal at Limestone
10.0				
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: FROG-SS-113(0.0-2.0) collected at 0750
FROG-SS-113(6.0-8.0) collected at 0752

Preliminary Draft

Project Frog Switch Phase II ESA

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-114

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by L. Cesic **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 19 ft. **Location** 316982.0 N 2128450.2 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 452.1 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/20/2025 **Date Completed** 10/20/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.0	30 / 60 in.	0-6" dark brown **silt Loam** with roots, moist, no odor, no staining
		0.0		6-12" brown **silty Clay**, moist, no odor, no staining
2.0		0.0		
		13.1		12-30" black and dark brown very coarse **Sand** with granules, crushed white porous stone from 15-18", moist, no odor/stain
3.0		0.0		
4.0				30-60" No Recovery
5.0				
6.0		0.0	60 / 60 in.	0-12" dark brown **silty Clay**, moist, no odor, no staining
7.0		0.0		
8.0		0.0		12-60" brown **silty Clay**, moist, no odor, no staining
9.0		0.0		
10.0		0.0		
11.0		0.0	48 / 60 in.	0-48" brown **silty Clay**, layer of high moisture content from 30-34", no odor, no staining
12.0		0.0		
13.0		0.0		
14.0		0.0		
15.0		0.0		48-60" No Recovery
16.0		0.0	48 / 48 in.	0-48" brown **silty Clay**, moist, no odor, no staining
17.0		0.0		
18.0		0.0		
19.0		0.0		
20.0				Refusal at Limestone
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: FROG-SS-114(0.0-2.0) collected at 0841
FROG-SS-114(17.0-19.0) collected at 0844

Preliminary Draft

Project Frog Switch Phase II ESA

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-115

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by L. Cesic **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 8.5 ft. **Location** 316552.7 N 2128038.8 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 453.8 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/17/2025 **Date Completed** 10/17/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.0	36 / 60 in.	0-4" dark brown **Loam** with roots and grass
2.0		0.0		4-27" black fine to medium **Sand** with pebbles up to 3/4 in., white porous stone from 10-11", moist, no odor, no staining
3.0		0.0		27-36" brown **silty Clay**, moist, no odor, no staining
4.0		0.0		36-60" No Recovery
5.0		0.0		
6.0		0.0	42 / 42 in.	0-42" brown **silty Clay**, moist, no odor, no staining
7.0		0.0		
8.0		0.4		
9.0		0.2		Refusal at Limestone
10.0				
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: FROG-SS-115(0.0-2.0) collected at 1043
FROG-SS-115(6.5-8.5) collected at 1045

Preliminary Draft

Project Frog Switch Phase II ESA

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-116

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by L. Cesic **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 20.5 ft. **Location** 316658.1 N 2128136.2 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 455.0 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/17/2025 **Date Completed** 10/17/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.0	30 / 60 in.	0-4" dark brown **Loam** with grass and roots, moist, no odor, no staining
2.0		0.0		
3.0		0.0		4-30" black fine to medium **Sand** with pebbles up to 3/4 in., white porous stone from 27-30", moist, no odor, no staining
4.0		0.0		
5.0		0.0		30-60" No Recovery
6.0		0.0	54 / 60 in.	0-9" black fine to medium **Sand** with pebbles up to 3/4 in., moist, no odor, no staining
7.0		0.0		
8.0		0.0		0-54" brown **silty Clay**, moist, no odor, no staining
9.0		0.0		
10.0		0.0		54-60" No Recovery
11.0		0.0	60 / 60 in.	0-60" brown **silty Clay**, moist, no odor, no staining
12.0		0.0		
13.0		0.0		
14.0		0.0		
15.0		0.0		
16.0		0.0	60 / 60 in.	0-60" brown **silty Clay**, moist, no odor, no staining
17.0		0.0		
18.0		0.0		
19.0		0.0		
20.0		22.2		
21.0		25.1	6/6in.	0-6" brown **silty Clay**, moist, stained and contains a petroluem-like odor
22.0				Refusal at Limestone
23.0				
24.0				
25.0				

Notes: FROG-SS-116(0.0-2.0) collected at 0942
FROG-SS-116(18.5-20.5) collected at 0944 (FROG-SS-MS/MSD-103 collected here)

Preliminary Draft

Project Frog Switch Phase II ESA

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-117

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by L. Cesic **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 13 ft. **Location** 316739.4 N 2128210.1 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 454.5 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/17/2025 **Date Completed** 10/17/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.0	24 / 60 in.	0-4" dark brown **Loam** with grass and roots, moist, no odor, no staining
2.0		0.0		4-24" black fine to medium **Sand** with pebbles up to 3/4 in., white and orange-brown porous stone from 9-11", moist, no odor, no staining
3.0		4.7		
4.0		0.1		24-60" No Recovery
5.0				
6.0		0.8	20 / 60 in.	0-10" black fine to medium **Sand** with pebbles up to 3/4 in., moist, no odor, no staining
7.0		0.0		10-20" gray very fine **Sand** with gray pebbles up to 1/2 in., moist, no odor, no staining
8.0		0.0		
9.0				20-60" No Recovery
10.0				
11.0		0.0	36 / 36 in.	0-28" gray and brown **sandy Loam** with pebbles up to 1/2 in., moist, no odor, no staining
12.0		0.0		
13.0		0.0		28-36" brown **silty Clay**, moist, no odor, no staining
14.0		0.0		Refusal at Limestone
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: FROG-SS-117(0.0-2.0) collected at 0814 (FROG-SS-DUP-103 collected here)
FROG-SS-117(11.0-13.0) collected at 0822

Preliminary Draft

Project Frog Switch Phase II ESA

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-118

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by L. Cesic **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 13 ft. **Location** 316625.6 N 2128702.4 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 455.8 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/16/2025 **Date Completed** 10/16/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.0	24 / 60 in.	0-4" Concrete
2.0		0.0		4-20" dark brown and black **sandy Clay Loam**, moist, no odor, no staining
3.0		0.0		20-24" brown **silty Clay**, moist, no odor, no staining
4.0		0.0		
5.0				24-60" No Recovery
6.0		0.0	60 / 60 in.	0-60" brown **silty Clay**, moist, no odor, no staining
7.0		0.0		
8.0		0.0		
9.0		0.0		
10.0		0.0		
11.0		0.0	30 / 36 in.	0-18" brown **silty Clay**, moist, no odor, no staining
12.0		0.0		18-30" gray and white **Crushed Stone** (potentially concrete or limestome)
13.0		0.0		30-36" No Recovery
14.0				Refusal at Concrete or Limestone
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: FROG-SS-118(0.0-2.0) collected at 1420
FROG-SS-118(10.0-12.0) collected at 1423 (FROG-SS-DUP-102 collected here)

Preliminary Draft

Project Frog Switch Phase II ESA

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-119

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by L. Cesic **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 1.8 ft. **Location** 316707.9 N 2128742.0 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 455.6 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/16/2025 **Date Completed** 10/16/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.1	22/22 in	0-10" **Concrete**
		1.9		10-13" black fine to medium **Sand**, moist, slight petroleum-like odor, slight staining
2.0		0.0		13-22" **Concrete**
				Refusal at Concrete
3.0				
4.0				
5.0				
6.0				
7.0				
8.0				
9.0				
10.0				
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: FROG-SS-119(0.0-0.5) collected at soil surface with hand trowel at 1400 on 10/20/2025
FROG-SS-119(0.5-1.0) collected at 1345
FROG-SS-FB-102 collected at 1310

Preliminary Draft

Project Frog Switch Phase II ESA

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-120

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by L. Cesic **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 5 ft. **Location** 316817.3 N 2129160.7 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 458.1 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/16/2025 **Date Completed** 10/16/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.0	42 / 60 in.	0-38" black sandy **Urban Fill** material with gravel and pebbles up to 1 in. and pieces of red brick and glass mixed in, moist, no odor, no staining
2.0		0.2		
3.0		0.0		
4.0		1.7		38-42" dark gray **silty Clay**, moist, no odor, no staining
5.0		0.7		42-60" No Recovery
6.0		0.4		Refusal at Limestone
7.0				
8.0				
9.0				
10.0				
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: FROG-SS-120(0.0-2.0) collected at 0800
FROG-SS-120(2.0-3.5) collected at 0805

Preliminary Draft

Project Frog Switch Phase II ESA

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-121

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by L. Cesic **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 21.5 ft. **Location** 316825.3 N 2129030.8 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 455.6 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/16/2025 **Date Completed** 10/16/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.0	30 / 60 in.	0-30" dark brown fine to medium **Sand**, fine roots in top 3", shiny black pebbles up to 1/4 in, moist, no odor, no staining
2.0		0.0		
3.0		0.3		
4.0		0.0		
5.0		0.0		30-60" No Recovery
6.0		0.0	60 / 60 in.	0-2" dark brown fine to medium **Sand** with pebbles up to 1/2 in., moist, no odor, no staining
7.0		0.0		
8.0		0.0		2-60" brown **silty Clay** with a layer of gray sandy Clay from 45-50", moist, no odor, no staining
9.0		0.0		
10.0		0.0		
11.0		0.3		
12.0		0.0	60 / 60 in.	0-60" brown **silty Clay** with dark brown sand and pebbles mixed into the top 4", moist, no odor, no staining
13.0		0.0		
14.0		0.0		
15.0		0.0		
16.0		0.0		
17.0		0.0	60 / 60 in.	0-60" brown **silty Clay** with a layer of dark brown sand and shiny black pebbles from 16-22", moist, no odor, no staining
18.0		0.0		
19.0		0.0		
20.0		0.0		
21.0		0.0	18/18	0-18" brown **silty Clay** with a layer of dark brown sand and shiny black pebbles, moist, no odor, no staining
22.0				Refusal at Limestone
23.0				
24.0				
25.0				

Notes: FROG-SS-121(0.0-2.0) collected at 0906
FROG-SS-121(20.0-21.5) collected at 0916 (FROG-SS-MS/MSD-102 collected here)

Preliminary Draft

Project Frog Switch Phase II ESA

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-122

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by L. Cesic **Checked by** J. Klaybor **Page** 1 of 2

Boring Depth 32 ft. **Location** 316751.3 N 2128920.8 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 455.2 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/20/2025 **Date Completed** 10/20/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.0	30 / 60 in.	0-3" **Gravel** and loamy Sand material on shop floor surface
2.0		0.0		3-20" **Concrete**
3.0		0.0		20-30" brown **silty Clay** with pebbles up to 1/2 in. and very coarse Sand mixed in, moist, no staining, petroleum-like odor
4.0		0.0		
5.0				30-60" No Recovery
6.0		0.0	60 / 60 in.	0-6" dark gray **sandy Clay**, moist, no odor, no staining
7.0		0.0		
8.0		0.0		
9.0		0.0		6-60" brown **silty Clay**, moist, no odor, no staining
10.0		0.0		
11.0		0.0	60 / 60 in.	0-60" brown **silty Clay** with layer of very coarse sand and 1/2 in. pebbles from 12-15", moist, no odor, no staining
12.0		0.0		
13.0		0.0		
14.0		0.0		
15.0		0.0		
16.0		0.0	60 / 60 in.	0-60" brown **silty Clay**, moist, no odor, no staining
17.0		0.0		
18.0		0.0		
19.0		0.0		
20.0		0.0		
21.0		0.0	60 / 60 in.	0-60" brown **silty Clay**, high moisture content beginning at 36" but not saturated, no odor, no staining
22.0		0.0		
23.0		0.0		
24.0		0.0		
25.0		0.0		

Notes:

Preliminary Draft

Project Frog Switch Phase II ESA

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-122

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by L. Cesic **Checked by** J. Klaybor **Page** 2 of 2

Boring Depth 32 ft. **Location** 316751.3 N 2128920.8 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 455.2 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/20/2025 **Date Completed** 10/20/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
25.0				
26.0		0.0	30/60	0-30" dark brown **Clay**, high moisture content but not saturated, no odor, no staining
27.0		0.0		
28.0		0.0		
29.0		0.0		30-60" No Recovery
30.0		0.0		
31.0		0.0	24/24 in.	0-24' brown **silty Clay**, high moisture content but not saturated, no odor, no staining
32.0		0.0		
33.0				Refusal at Limestone
34.0				
35.0				
36.0				
37.0				
38.0				
39.0				
40.0				
41.0				
42.0				
43.0				
44.0				
45.0				
46.0				
47.0				
48.0				
49.0				
50.0				

Notes: FROG-SS-122(1.5-3.5) collected at 1045
FROG-SS-122(30.0-32.0) collected at 1100 (FROG-SS-MS/MSD-104 collected here)

Preliminary Draft

Project Frog Switch Phase II ESA

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-123

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by L. Cesic **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 19 ft. **Location** 317089.3 N 2128987.3 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 455.4 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/20/2025 **Date Completed** 10/20/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.0	48 / 60 in.	0-12" **Concrete**
2.0		0.0		
3.0		0.0		12-48" brown **silty Clay**, moist, no odor, no staining
4.0		0.0		
5.0		0.0		48-60" No Recovery
6.0		0.0	60 / 60 in.	0-60" brown **silty Clay** with concrete (presumed to be fall-in material) from 28-34", moist, no odor, no staining
7.0		0.0		
8.0		0.0		
9.0		0.0		
10.0		0.0		
11.0		0.0	60 / 60 in.	0-60" brown **silty Clay** with concrete (presumed to be fall-in material) from 5-15", moist, no odor, no staining
12.0		0.0		
13.0		0.0		
14.0		0.0		
15.0		0.0		
16.0		0.0	48 / 48 in.	0-48" brown **silty Clay** with concrete (presumed to be fall-in material) from 0-5", moist, no staining, petroleum-like odor at bottom 12" of boring
17.0		0.0		
18.0		1.5		
19.0		3.4		
20.0		0.0		Refusal at Limestone
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: FROG-SS-123(1.0-3.0) collected at 1235
FROG-SS-123(17.0-19.0) collected at 1242 (FROG-SS-DUP-104 collected here)
FROG-SS-FB-104 collected at 1147

Preliminary Draft

Boring Log

U.S. Department of Transportation Volpe Center

Project Frog Switch Supplemental Phase II	**Boring ID** FROG-SB-202	
Location Frog, Switch & Manufacturing Co., Carlisle, PA		
Sponsor U.S. EPA Region 3 Brownfields	**Permit #** N/A	

Logged by E. Paleo **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 9.5 ft. **Location** 316634.5 N 2128746.7 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 456.4 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/23/2026 **Date Completed** 06/23/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.4	23 / 60 in.	0-13" **Concrete**
2.0		0.4		13-21" brown/dark gray **Gravel** mixed with crushed stone and coarse sand
3.0		0.4		21-23" brown **silty Clay**
4.0		0.4		23-60" No Recovery
5.0		0.4		
6.0		0.4	40 / 54 in.	0-40" brown **silty Clay**
7.0		0.4		
8.0		0.4		
9.0		0.4		40-54" No Recovery
10.0				Refusal at 9.5'
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.4 ppm
FROG-FB-202 collected at 0942
FROG-SS-202(1.0-2.0) collected at 0959
FROG-SS-202(5.0-5.5) collected at 1000
FROG-SS-202(7.5-8.0) collected at 1003
FROG-SS-202(9.0-9.5) collected at 1008

Preliminary Draft

Boring Log

U.S. Department of Transportation Volpe Center

Project Frog Switch Supplemental Phase II	**Boring ID** FROG-SB-203	
Location Frog, Switch & Manufacturing Co., Carlisle, PA		
Sponsor U.S. EPA Region 3 Brownfields	**Permit #** N/A	

Logged by E. Paleo **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 2 ft. **Location** 316622.6 N 2128725.2 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 456.1 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/23/2026 **Date Completed** 06/23/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.4	24/24 in.	0-16" **Concrete**
		0.4		
2.0		0.4		16-24" brown/dark gray **Gravel** mixed with crushed stone and coarse sand
				Refusal at 2'
3.0				
4.0				
5.0				
6.0				
7.0				
8.0				
9.0				
10.0				
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.4 ppm
FROG-SS-203(1.5-2.0) collected at 1035

Preliminary Draft

Project Frog Switch Supplemental Phase II	**Boring ID**	Boring Log
Location Frog, Switch & Manufacturing Co., Carlisle, PA	FROG-SB-204	U.S. Department of Transportation Volpe Center
Sponsor U.S. EPA Region 3 Brownfields	**Permit #** N/A	

Logged by E. Paleo **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 4 ft. **Location** 316627.1 N 2128666.7 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 455.2 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/23/2026 **Date Completed** 06/23/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0			24/48 in.	0-24" crushed **Concrete** mixed with clay and debris
2.0				
3.0				24-48" No Recovery
4.0				
5.0				Refusal at 4'
6.0				
7.0				
8.0				
9.0				
10.0				
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.4 ppm
FROG-SS-204(1.0-2.0) collected at 1115
FROG-SS-204(3.5-4.0) collected at 1118

Preliminary Draft

Boring Log

U.S. Department of Transportation Volpe Center

Project Frog Switch Supplemental Phase II	**Boring ID** FROG-SB-205	
Location Frog, Switch & Manufacturing Co., Carlisle, PA		
Sponsor U.S. EPA Region 3 Brownfields	**Permit #** N/A	

Logged by E. Paleo **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 4 ft. **Location** 316756.1 N 2128716.5 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 456.1 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/23/2026 **Date Completed** 06/23/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.1	36/48 in.	0-15" black medium **Sand** mixed with crushed stone under a thin asphalt surface
2.0		3.6		15-20" fine brown **Sand**
3.0		0.5		20-25" **Gravel** mixed with crushed stone
4.0		0.2		25-36" brown **silty Clay**
5.0		0.5		36-48" No Recovery
6.0				Refusal at 4'
7.0				
8.0				
9.0				
10.0				
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.2 ppm
FROG-SS-205(1.0-2.0) collected at 1315 (FROG-SS-DUP-202 collected here)
FROG-SS-205(3.5-4.0) collected at 1318

Preliminary Draft

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-206

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by E. Paleo **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 11 ft. **Location** 316711.1 N 2128795.2 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 456.5 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/23/2026 **Date Completed** 06/23/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.3	38 / 60 in.	0-2" **Concrete**
		0.3		2-18" dark gray gravel/**Fill** mixed with crushed stone and debris
2.0		0.3		
		0.3		18-38" brown **silty Clay**
3.0		0.3		
		0.3		
4.0		0.3		38-60" No Recovery
		0.3		
5.0		0.3		
6.0		0.3	60 / 60 in.	0-60" brown **silty Clay**, 1" pocket of gravel and crushed stone at 49"
		0.3		
7.0		0.3		
		0.3		
8.0		0.3		
		0.3		
9.0		0.3		
		0.3		
10.0		0.3		
11.0		0.3	12/12	0-12" brown **silty Clay**, 1" layer of gravel and crushed stone at 6", 2" light gray clay at bottom
				Refusal at 11'
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.3 ppm
FROG-SS-206(0.5-2.0) collected at 1346
FROG-SS-206(4.5-5.0) collected at 1358
FROG-SS-206(9.5-10.0) collected at 1402
FROG-SS-206(10.5-11.0) collected at 1407

Preliminary Draft

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-207

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by E. Paleo **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 7 ft. **Location** 316663.8 N 2128761.1 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 456.2 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/23/2026 **Date Completed** 06/23/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.4	23 / 60 in.	0-6" **Concrete**
		0.4		6-10" **Fill** consiting of dark gray gravel and coarse sand
2.0		0.4		10-24" brown **silty Clay**
3.0		0.4		
4.0		0.4		24-60" No Recovery
5.0		0.4		
6.0		0.4	24/24 in.	0-24" brown **silty Clay** with 1.5" of light gray clay at the bottom
7.0		0.4		
8.0				Refusal at 7'
9.0				
10.0				
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.4 ppm
FROG-SS-207(0.5-2.0) collected at 1442
FROG-SS-207(4.5-5.0) collected at 1448
FROG-SS-207(5.5-6.0) collected at 1452
FROG-SS-207(6.5-7.0) collected at 1457

Preliminary Draft

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-208

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by E. Paleo **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 12.5 ft. **Location** 316719.8 N 2128702.8 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 455.5 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/24/2026 **Date Completed** 06/24/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.1	48 / 60 in.	0-1" **Loam**, top soil, and plant material
		0.1		1-12" dark gray **Gravel** mixed with crushed stone
2.0		0.1		
		0.1		
3.0		0.1		12-48" brown **silty Clay**
		0.1		
4.0		0.1		
		0.1		
5.0		0.1		48-60" No Recovery
6.0		0.2	60 / 60 in.	0-60" brown **silty Clay**
		0.2		
7.0		0.2		
		0.2		
8.0		0.2		
		0.2		
9.0		0.2		
		0.2		
10.0		0.2		
11.0		0.2	30 / 30 in.	0-30" brown **silty Clay** with some gravel/crushed stone fall-in
		0.2		
12.0		0.2		
		0.2		
13.0				Refusal at 12.5'
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.1 ppm
FROG-SS-208(0.0-2.0) collected at 0826
FROG-SS-208(4.5-5.0) collected at 0829
FROG-SS-208(9.5-10.0) collected at 0830
FROG-SS-208(12.0-12.5) collected at 0831

Preliminary Draft

Project Frog Switch Supplemental Phase II	**Boring ID**	**Boring Log**
Location Frog, Switch & Manufacturing Co., Carlisle, PA	FROG-SB-209	U.S. Department of Transportation Volpe Center
Sponsor U.S. EPA Region 3 Brownfields	**Permit #** N/A	

Logged by M. Foster **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 15 ft. **Location** 316476.3 N 2128996.3 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 456.7 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/22/2026 **Date Completed** 06/22/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.3	28 / 60 in.	0-5" **Asphalt**
		0.3		5-14" **Gravel**
2.0		0.3		14-28" brown **silty Clay**
		0.3		
3.0		0.2		
4.0				28-60" No Recovery
5.0				
6.0		0.3	60 / 60 in.	0-60" brown **silty Clay**
		0.3		
7.0		0.3		
		0.3		
8.0		0.3		
		0.3		
9.0		0.3		
		0.3		
10.0				
11.0		0.3	60 / 60 in.	0-54" brown **silty Clay**
		2.9		
12.0		2.0		
		5.7		
13.0		4.1		
		1.7		
14.0		3.8		
15.0				54-60" brown **Clay**
16.0				End of Boring
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.2 ppm
FROG-FB-201 collected at 1212
FROG-SS-209(0.0-2.0) collected at 1224
FROG-SS-209(4.5-5.0) collected at 1232
FROG-SS-209(9.5-10.0) collected at 1236
FROG-SS-209(14.5-15.0) collected at 1238

Preliminary Draft

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-210

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by M. Foster **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 15 ft. **Location** 316447.9 N 2129043.2 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 456.6 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/22/2026 **Date Completed** 06/22/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.3	55 / 60 in.	0-5" **Asphalt**
		0.3		5-10" **Gravel** with crushed stone
2.0		0.3		
		0.3		
3.0		0.3		10-55" brown **silty Clay**
		0.3		
4.0		0.3		
5.0		0.3		55-60" No Recovery
6.0		0.3	60 / 60 in.	
		0.3		
7.0		0.3		
		1.4		
8.0		1.5		0-60" brown **silty Clay**
		1.4		
9.0		0.3		
10.0		0.3		
11.0		0.3	60 / 60 in.	
		7.0		
12.0		5.2		
		4.4		0-48" brown **silty Clay**
13.0		4.5		
		10.6		
14.0		5.4		
15.0		4.1		48-60" brown **Clay**
16.0				End of Boring
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.3 ppm
FROG-SS-210(0.0-2.0) collected at 1258
FROG-SS-210(4.5-5.0) collected at 1302
FROG-SS-210(9.5-10.0) collected at 1307
FROG-SS-210(14.5-15.0) collected at 1310

Preliminary Draft

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-211

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by M. Foster **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 10.5 ft. **Location** 316422.1 N 2129003.6 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 457.9 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/22/2026 **Date Completed** 06/22/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.5	39 / 60 in.	0-12" brown medium **Sand** with pebbles up to 1" and some organic material
2.0		0.5		
3.0		0.5		12-39" brown **silty Clay**
4.0		0.5		
5.0		0.5		39-60" No Recovery
6.0		0.5	60 / 60 in.	0-60" brown **silty Clay** with 3" layer of white silt at 56"
7.0		0.5		
8.0		0.5		
9.0		0.5		
10.0		0.5		
11.0		0.5	6/6in.	0-6" brown **silty Clay** with streaks of white silt
12.0				Refusal at 10.5'
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.5 ppm
FROG-SS-211(0.0-2.0) collected at 1348
FROG-SS-211(4.5-5.0) collected at 1352
FROG-SS-211(7.5-8.0) collected at 1356
FROG-SS-211(10.0-10.5) collected at 1401

Preliminary Draft

Project Frog Switch Supplemental Phase II	**Boring ID**	**Boring Log**
Location Frog, Switch & Manufacturing Co., Carlisle, PA	FROG-SB-212	U.S. Department of Transportation Volpe Center
Sponsor U.S. EPA Region 3 Brownfields	**Permit #** N/A	

Logged by M. Foster **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 14 ft. **Location** 316430.4 N 2128961.8 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 457.3 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/22/2026 **Date Completed** 06/22/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.4	48 / 60 in.	0-2" **Loam,** top soil, and plant material
		0.6		2-17" brown **silty Clay**
2.0		111		17-18" black **sandy Clay**, organic odor
		108		
3.0		153		18-48" brown **silty Clay**, petroleum-like odor
		78.7		
4.0		116		
5.0		56.3		48-60" No Recovery
6.0		36.2	60 / 60 in.	0-60" brown **silty Clay**, saturated with unknown free product with petroleum-like odor from 0-30"
		104		
7.0		36.8		
		44.0		
8.0		29.2		
		32.6		
9.0		46.8		
10.0		23.8		
11.0		44.7	48 / 48 in.	0-48" brown **silty Clay** with product fall-in
		58.7		
12.0		37.8		
		42.6		
13.0		38.2		
		17.8		
14.0		5.6		
15.0				Refusal at 14'
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.4 ppm
FROG-SS-212(0.0-2.0) collected at 1437
FROG-SS-212(4.5-5.0) collected at 1440
FROG-SS-212(9.5-10.0) collected at 1441
FROG-SS-212(13.5-14.0) collected at 1444
FROG-SS-212(5.0-7.0) collected at 1446 (sample collected due to free product)

Preliminary Draft

Boring Log

U.S. Department of Transportation Volpe Center

Project Frog Switch Supplemental Phase II	**Boring ID** FROG-SB-213	
Location Frog, Switch & Manufacturing Co., Carlisle, PA		
Sponsor U.S. EPA Region 3 Brownfields	**Permit #** N/A	

Logged by M. Foster **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 15 ft. **Location** 316490.7 N 2129163.2 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 457.7 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/22/2026 **Date Completed** 06/22/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.1	45 / 60 in.	0-17" **Gravel** mixed with crushed stone
2.0		0.2		
3.0		0.2		17-45" brown **silty Clay**
4.0		0.1		
5.0		0.1		45-60" No Recovery
6.0		0.2	60 / 60 in.	0-60" brown **silty Clay**
7.0		0.2		
8.0		0.2		
9.0		0.2		
10.0		0.2		
11.0		0.2	60 / 60 in.	0-60" brown **silty Clay** with 2" of gravel fall-in
12.0		0.2		
13.0		0.2		
14.0		0.2		
15.0		0.2		
16.0				End of Boring
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.2 ppm
FROG-SS-213(0.0-2.0) collected at 0901
FROG-SS-213(4.5-5.0) collected at 0907 (FROG-SS-MS/MSD-201 collected here)
FROG-SS-213(9.5-10.0) collected at 0916
FROG-SS-213(14.5-15.0) collected at 0918

Preliminary Draft

Boring Log

U.S. Department of Transportation Volpe Center

Project Frog Switch Supplemental Phase II	**Boring ID** FROG-SB-214	
Location Frog, Switch & Manufacturing Co., Carlisle, PA		
Sponsor U.S. EPA Region 3 Brownfields	**Permit #** N/A	

Logged by M. Foster **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 9.5 ft. **Location** 316437.7 N 2129185.9 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 457.9 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/22/2026 **Date Completed** 06/22/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.3	27 / 60 in.	0-9" **Gravel** mixed with crushed stone
2.0		0.3		9-18" brown **silty Clay**
3.0		0.3		18-27" dark brown **Fill**, pebbles up to 2", black wood, and brown clay with a petroleum-like odor
4.0		0.3		
5.0		0.3		27-60" No Recovery
6.0		0.3	54 / 54 in.	0-54" brown **silty Clay** with gravel fall-in
7.0		0.3		
8.0		0.6		
9.0		0.6		
10.0		0.8		Refusal at 9.5'
11.0		0.3		
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.3 ppm
FROG-SS-214(0.0-2.0) collected at 0938
FROG-SS-214(4.0-4.5) collected at 0942
FROG-SS-214(5.0-5.5) collected at 0946
FROG-SS-214(9.0-9.5) collected at 0950

Preliminary Draft

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-215

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by M. Foster **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 15 ft. **Location** 316420.1 N 2129147.9 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 458.3 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/22/2026 **Date Completed** 06/22/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.3	42 / 60 in.	0-14" **Gravel** mixed with crushed stone
2.0		0.3		
3.0		0.3		14-42" brown **silty Clay**
4.0		0.3		
5.0		0.3		42-60" No Recovery
6.0		0.3	60 / 60 in.	0-60" brown **silty Clay** with gravel fall-in
7.0		0.3		
8.0		0.3		
9.0		0.3		
10.0		0.3		
11.0		0.3	60 / 60 in.	0-60" brown **silty Clay**
12.0		0.3		
13.0		0.3		
14.0		0.3		
15.0		0.3		
16.0				End of Boring
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.3 ppm
FROG-SS-215(0.0-2.0) collected at 1011
FROG-SS-215(4.5-5.0) collected at 1019 (FROG-SS-DUP-201 collected here)
FROG-SS-215(9.5-10.0) collected at 1021
FROG-SS-215(14.5-15.0) collected at 1025

Preliminary Draft

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-216

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by M. Foster **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 8 ft. **Location** 316443.2 N 2129111.7 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 458.6 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/22/2026 **Date Completed** 06/22/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.4	38 / 60 in.	0-3" black **Sand** and organic material
		0.4		3-12" **Gravel** mixed with crushed stone
2.0		0.4		12-24" dark gray **Silt**
		0.4		
3.0		0.4		24-38" **Fill** consiting of black and gray medium sand with pebbles up to 1/2"
		0.4		
4.0		0.4		
5.0		0.4		38-60" No Recovery
		0.4	28 / 36 in.	0-6" dark brown **Silt**
6.0		0.4		6-12" brown very fine to medium **Sand**, pebbles up to 1/2"
7.0		2.6		12-26" black medium to coarse **Sand** with red brick, with tan medium to coarse sand starting at 21"
		4.2		26-28" brown **silty Clay**
8.0				28-36" No Recovery
9.0				Refusal at 8'
10.0				
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.4 ppm
FROG-SS-216(0.0-2.0) collected at 1050
FROG-SS-216(4.5-5.0) collected at 1052
FROG-SS-216(6.0-7.0) collected at 1055
FROG-SS-216(7.5-8.0) collected at 1057

Preliminary Draft

Project Frog Switch Supplemental Phase II	**Boring ID**	Boring Log
Location Frog, Switch & Manufacturing Co., Carlisle, PA	FROG-SB-217	U.S. Department of Transportation Volpe Center
Sponsor U.S. EPA Region 3 Brownfields	**Permit #** N/A	

Logged by M. Foster **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 12 ft. **Location** 316879.5 N 2129042.6 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 455.3 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/26/2026 **Date Completed** 06/26/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.2	34 / 60 in.	0-34" **Fill** consisting of black and brown medium to fine sand with some brick, rubber pieces, and pebbles up to 1"
2.0		0.2		
3.0		0.2		
4.0		0.2		34-60" No Recovery
5.0		0.2		
6.0		0.2	60 / 60 in.	0-4" **Fill** consisting of black and brown medium sand
7.0		0.2		
8.0		0.2		4-60" brown **silty Clay**
9.0		0.2		
10.0		0.2		
11.0			24/24 in.	0-24" brown **silty Clay** with some fall-in, high moisture content in bottom 3" where some bedrock is mixed in
12.0				
13.0				Refusal at 12'
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.2 ppm
FROG-SS-217(0.0-2.0) collected at 0828
FROG-SS-217(4.0-5.0) collected at 0833
FROG-SS-217(9.0-10.0) collected at 0839 (FROG-SS-MS/MSD-204 collected here)
FROG-SS-217(11.0-12.0) collected at 0844

Preliminary Draft

Project Frog Switch Supplemental Phase II	**Boring ID**	Boring Log
Location Frog, Switch & Manufacturing Co., Carlisle, PA	FROG-SB-218	U.S. Department of Transportation Volpe Center
Sponsor U.S. EPA Region 3 Brownfields	**Permit #** N/A	

Logged by M. Foster **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 12 ft. **Location** 316810.3 N 2129074.0 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 456.9 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/25/2026 **Date Completed** 06/25/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.2	28 / 60 in.	0-28" **Fill** consisting of black and gray medium to fine sand with crushed stone and pebbles up to 1"
2.0		0.2		
3.0		62.8		
4.0		3.2		28-60" No Recovery
5.0		1.7		
6.0		1.2	60 / 60 in.	0-6" **Fill** consisting of black and gray medium to fine sand with crushed stone and pebbles up to 1"
7.0		0.3		
8.0		0.3		
9.0		0.3		6-60" brown **silty Clay**
10.0		0.3		
11.0		0.3	20/24 in.	0-20" brown **silty Clay** with some fall-in, high moisture content in bottom 3" where some limestone is mixed in
12.0		0.3		20-24" No Recovery
13.0		0.2		Refusal at 12'
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.2-0.4 ppm
FROG-SS-218(0.0-2.0) collected at 1340
FROG-SS-218(4.0-5.0) collected at 1347
FROG-SS-218(9.0-10.0) collected at 1351
FROG-SS-218(11.0-12.0) collected at 1355

Preliminary Draft

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-219

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by M. Foster **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 6.5 ft. **Location** 316772.7 N 2129024.6 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 455.1 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/26/2026 **Date Completed** 06/26/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.3	24 / 60 in.	0-24" **Fill** consisting of black and brown medium sand with brick pieces and pebbles up to 1"
2.0		4.2		
3.0		2.0		
4.0		0.4		24-60" No Recovery
5.0				
6.0		0.2	18/18 in	0-4" **Fill** consisting of brown medium sand with pebbles up to 1"
7.0		0.2		4-18" brown **silty Clay** with crushed limestone at bottom
8.0				Refusal at 6.5'
9.0				
10.0				
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.3 ppm
FROG-FB-204 collected at 0900
FROG-SS-219(0.0-2.0) collected at 0914 (FROG-SS-DUP-204 collected here)
FROG-SS-219(4.0-5.0) collected at 0920
FROG-SS-219(5.5-6.5) collected at 0926

Preliminary Draft

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-220

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by M. Foster **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 6 ft. **Location** 316868.4 N 2129166.8 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 458.0 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/25/2026 **Date Completed** 06/25/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.1	40 / 60 in.	0-3" **Gravel**
2.0		1.3 0.3		3-35" **Fill** consisting of black and gray medium to fine sand with some brick and pebbles up to 3/4"
3.0		4.0 0.6		
4.0		0.2 0.2		35-40" black **Silt** with traces of green sand mixed in
5.0				40-60" No Recovery
6.0		0.7	2/12 i	0-3" black **Silt** with traces green sand mixed in 3-6" gray medium **Sand** 6-12" brown **silty Clay**
7.0				Refusal at 6'
8.0				
9.0				
10.0				
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.1 ppm
FROG-SS-220(0.0-2.0) collected at 1007
FROG-SS-220(4.0-5.0) collected at 1010 (FROG-SS-DUP-203 colelcted here)
FROG-SS-220(5.5-6.0) collected at 1015
FROG-FB-203 collected at 1020

Preliminary Draft

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-221

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by M. Foster **Checked by** J.Klaybor **Page** 1 of 1

Boring Depth 15 ft. **Location** 316814.2 N 2129210.7 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 459.1 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/25/2026 **Date Completed** 06/25/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.1	36 / 60 in.	0-9" **Gravel**
2.0		0.5 0.2 0.3		9-31" **Fill** consisting of black, gray, and tan medium to fine sand, fine shiny green sand and pebbles up to 1/2"
3.0		0.9		31-34" brown **silty Clay**
4.0		0.5		34-36" black very fine **Sand**
5.0				36-60" No Recovery
6.0		0.1	55 / 60 in.	0-4" brown **silty Clay**
7.0		0.1		4-10" gray medium **Sand** with gravel mixed in, potential fall-in
8.0		0.1 0.1 0.1 0.1 0.1		10-55" brown **silty Clay**
9.0		0.1		
10.0		0.1		55-60" No Recovery
11.0		0.1	60 / 60 in.	0-60" brown **silty Clay**
12.0		0.1 0.1 0.1 0.1		
13.0		0.1		
14.0		0.1 0.1		
15.0		0.1		
16.0				End of Boring
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.1 ppm
FROG-SS-221(0.0-2.0) collected at 1048
FROG-SS-221(4.0-5.0) collected at 1050 (FROG-SS-MS/MSD-203 collected here)
FROG-SS-221(9.0-10.0) collected at 1100
FROG-SS-221(14.0-15.0) collected at 1105

Preliminary Draft

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-222

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by E. Paleo **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 11.5 ft. **Location** 316785.8 N 2129153.7 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 458.2 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/25/2026 **Date Completed** 06/25/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.2	42 / 60 in.	0-3" **Gravel**
2.0		1.4		3-35" **Fill** consisting of black and gray medium to fine sand with some brick, a bolt, and pebbles up to 1"
3.0		0.9		
4.0		1.4		35-38" black **Silt**
5.0		2.0		38-42" brown **silty Clay**
6.0		0.5		42-60" No Recovery
7.0		0.3		
8.0		0.2	54 / 60 in.	0-54" brown **silty Clay**
9.0		0.7		
10.0		0.2		
11.0		0.2		
12.0		0.2		
13.0		0.2		
14.0		0.2		
15.0		0.2		
16.0		0.2		
17.0		0.2		
18.0		0.2		
19.0		0.2		
20.0		0.2		
21.0		0.2		54-60" No Recovery
22.0		0.2	18/18 in	
23.0		0.2		0-18" brown **silty Clay**
24.0		0.2		
25.0				Refusal at 11.5'

Notes: PID Background: 0.2-0.3 ppm
FROG-SS-222(0.0-2.0) collected at 1128 (fill material)
FROG-SS-222(4.0-4.5) collected at 1134 (fill material)
FROG-SS-222(9.0-10.0) collected at 1138 (native material)
FROG-SS-222(10.5-11.5) collected at 1141 (native material)

Preliminary Draft

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-223

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by E. Paleo **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 11.5 ft. **Location** 316822.9 N 2129107.5 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 458.0 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/25/2026 **Date Completed** 06/25/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		8.1 0.5 0.4 0.4 3.5	36 / 60 in.	0-14" **Gravel** 14-36" **Fill** consisting of black, brown, and gray medium to fine sand with brick, crushed stone, and pebbles up to 1" 36-60" No Recovery
2.0				
3.0				
4.0				
5.0				
6.0		0.5 2.7 0.3 0.3 0.3 0.3 0.3 0.3	42 / 60 in.	0-16" **Fill** consisting of black, brown, and gray medium to fine sand with some brick and crushed stone 16-42" brown **silty Clay** 42-60" No Recovery
7.0				
8.0				
9.0				
10.0				
11.0		0.2 0.2 0.1	18/18 in	0-18" brown **silty Clay**
12.0				Refustal at 11.5'
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.3 ppm
FROG-SS-223(0.0-2.0) collected at 1258
FROG-SS-223(4.0-5.0) collected at 1301
FROG-SS-223(9.0-10.0) collected at 1308
FROG-SS-223(10.5-11.5) collected at 1311

Preliminary Draft

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-224

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by M. Foster **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 15 ft. **Location** 316751.7 N 2128916.5 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 455.3 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/26/2026 **Date Completed** 06/26/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.2	34 / 60 in.	0-5" **Concrete**
2.0		0.2		5-34" brown **silty Clay** with layer of black crushed rock from 24-26"
3.0		0.2		
4.0		0.2		
5.0		0.2		34-60" No Recovery
6.0		0.3	24 / 60 in.	0-24" brown **silty Clay** with layer of crushed stone from 5-6", likely fall-in
7.0		0.2		
8.0		0.2		
9.0		0.2		24-60" No Recovery
10.0		0.2		
11.0		0.3	46 / 60 in.	0-46" brown **silty Clay** with layer of crushed stone from 7-8", likely fall-in
12.0		0.3		
13.0		0.3		
14.0		0.3		
15.0		0.3		46-60" No Recovery
16.0				End of Boring
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.2-0.3 ppm
FROG-SS-224(0.5-2.0) collected at 1004
FROG-SS-224(4.5-5.0) collected at 1007
FROG-SS-224(9.5-10.0) collected at 1011
FROG-SS-224(14.5-15.0) collected at 1014

Preliminary Draft

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-225

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by M. Foster **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 15 ft. **Location** 317093.3 N 2128982.2 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 455.3 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/26/2026 **Date Completed** 06/26/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.3	52 / 60 in.	0-4" **Concrete**
2.0		0.3		
3.0		0.3		4-52" brown **silty Clay**
4.0		0.3		
5.0		0.3		52-60" No Recovery
6.0		0.3	60 / 60 in.	0-60" brown **silty Clay** with some concrete, likely fall-in
7.0		0.3		
8.0		0.3		
9.0		0.3		
10.0		0.3		
11.0		0.3	60 / 60 in.	0-60" brown **silty Clay** with some concrete, likely fall-in
12.0		0.3		
13.0		0.3		
14.0		0.3		
15.0		0.3		
16.0				End of Boring
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.3 ppm
FROG-SS-225(0.5-2.0) collected at 1048
FROG-SS-225(4.5-5.0) collected at 1052
FROG-SS-225(9.5-10.0) collected at 1056
FROG-SS-225(14.5-15.0) collected at 1100

Preliminary Draft

Boring Log

U.S. Department of Transportation Volpe Center

Project Frog Switch Supplemental Phase II	**Boring ID** FROG-SB-301	
Location Frog, Switch & Manufacturing Co., Carlisle, PA		
Sponsor U.S. EPA Region 3 Brownfields	**Permit #** N/A	

Logged by E. Paleo **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 11 ft. **Location** 317996.3 N 2129999.0 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 459.8 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/24/2026 **Date Completed** 06/24/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.1	50 / 60 in.	0-5" **Loam,** top soil, and plant material
2.0		0.1		
3.0		0.1		5-50" brown **silty Clay**
4.0		0.1		
5.0		0.1		50-60" No Recovery
6.0		0.1	60 / 60 in.	0-60" brown **silty Clay**
7.0		0.1		
8.0		0.1		
9.0		0.1		
10.0		0.1		
11.0		0.1	2/12 i	0-12" brown **silty Clay**
12.0				Refusal at 11'
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.1 ppm
FROG-SS-301(0.0-2.0) collected at 0929
FROG-SS-301(9.0-9.5) collected at 0930 (FROG-SS-MS/MSD-301 collected here)

Preliminary Draft

Boring Log

U.S. Department of Transportation Volpe Center

Project Frog Switch Supplemental Phase II	**Boring ID** FROG-SB-302	
Location Frog, Switch & Manufacturing Co., Carlisle, PA		
Sponsor U.S. EPA Region 3 Brownfields	**Permit #** N/A	

Logged by E. Paleo **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 7.5 ft. **Location** 317910.9 N 2130008.7 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 457.7 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/24/2026 **Date Completed** 06/24/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.2	52 / 60 in.	0-2" **Loam,** top soil, plant material, and crushed stone
2.0		0.2		
3.0		0.2		2-52" brown **silty Clay**
4.0		0.2		
5.0		0.2		52-60" No Recovery
6.0		0.2	30 / 30 in.	0-30" brown **silty Clay**
7.0		0.2		
8.0				Refusal at 7.5'
9.0				
10.0				
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.2 ppm
FROG-FB-301 collected at 0943
FROG-SS-302(0.0-2.0) collected at 0951 (FROG-SS-DUP-301 collected here)
FROG-SS-302(6.5-7.0) collected at 0955

Preliminary Draft

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-303

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by E. Paleo **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 6 ft. **Location** 317911.0 N 2130039.8 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 458.0 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/24/2026 **Date Completed** 06/24/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.3	50 / 60 in.	0-2" **Loam,** top soil, and plant material
2.0		0.3		
3.0		0.3		2-50" brown **silty Clay**
4.0		0.3		
5.0		0.3		50-60" No Recovery
6.0		0.3	2/12 i	0-12" brown **silty Clay** with 2" of limestone bedrock at the bottom
7.0				Refusal at 6'
8.0				
9.0				
10.0				
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.3 ppm
FROG-SS-303(0.0-2.0) collected at 1027
FROG-SS-303(4.5-5.0) collected at 1033

Preliminary Draft

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-304

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by E. Paleo **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 15 ft. **Location** 317756.1 N 2130001.9 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 453.6 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/24/2026 **Date Completed** 06/24/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.0	55 / 60 in.	0-55" brown **silty Clay**
2.0		0.0		
3.0		0.0		
4.0		0.0		
5.0		0.0		55-60" No Recovery
6.0		0.0	60 / 60 in.	0-60" brown **silty Clay**
7.0		0.0		
8.0		0.0		
9.0		0.0		
10.0		0.0		
11.0		0.1	60 / 60 in.	0-60" brown **silty Clay**
12.0		0.1		
13.0		0.1		
14.0		0.1		
15.0		0.1		
16.0				End of Boring
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.0 ppm
FROG-SS-304(0.0-2.0) collected at 1242
FROG-SS-304(14.5-15.0) collected at 1247

Preliminary Draft

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-305

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by E. Paleo **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 7.5 ft. **Location** 317741.3 N 2130040.5 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 456.1 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/24/2026 **Date Completed** 06/24/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.2	56 / 60 in.	0-2" **Loam**
2.0		0.2		
3.0		0.2		2-56" brown **silty Clay**
4.0		0.2		
5.0		0.2		56-60" No Recovery
6.0		0.2	30 / 30 in.	0-30" brown **silty Clay**
7.0		0.2		
8.0				Refusal at 7.5'
9.0				
10.0				
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.2 ppm
FROG-SS-305(0.0-2.0) collected at 1307
FROG-SS-305(7.0-7.5) collected at 1310

Preliminary Draft

Boring Log

U.S. Department of Transportation Volpe Center

Project Frog Switch Supplemental Phase II	**Boring ID** FROG-SB-306	
Location Frog, Switch & Manufacturing Co., Carlisle, PA		
Sponsor U.S. EPA Region 3 Brownfields	**Permit #** N/A	

Logged by E. Paleo **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 9.5 ft. **Location** 317710.0 N 2129997.1 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 452.9 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/24/2026 **Date Completed** 06/24/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.2	60 / 60 in.	0-2" **Loam** and top soil
2.0		0.2		
3.0		0.2		2-60" brown **silty Clay**
4.0		0.2		
5.0		0.2		
6.0		0.2	54 / 54 in.	0-54" brown **silty Clay**
7.0		0.2		
8.0		0.2		
9.0		0.2		
10.0				Refusal at 9.5'
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.2 ppm
FROG-SS-306(0.0-2.0) collected at 1329
FROG-SS-306(3.0-3.5) collected at 1331

Preliminary Draft

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-307

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by E. Paleo **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 10.5 ft. **Location** 317690.5 N 2129972.4 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 453.9 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/24/2026 **Date Completed** 06/24/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.2	60 / 60 in.	0-2" **Loam**, top soil, and pebbles up to 1"
2.0		0.2		
3.0		0.2		2-60" brown **silty Clay** with pebbles up to 1"
4.0		0.2		
5.0		0.2		
6.0		0.2	60 / 60 in.	
7.0		0.2		
8.0		0.2		0-60" brown **silty Clay** with pebbles up to 1"
9.0		0.2		
10.0		0.2		
11.0		0.2	6/6 in	0-6" brown **silty Clay**
12.0				Refusal at 10.5'
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.2 ppm
FROG-SS-307(0.0-2.0) collected at 1400
FROG-SS-307(8.0-8.5) collected at 1404

Preliminary Draft

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-308

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by E. Paleo **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 15 ft. **Location** 317648.1 N 2129975.1 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 455.4 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/24/2026 **Date Completed** 06/24/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.2	60 / 60 in.	0-2" **Loam** and top soil
2.0		0.2		
3.0		0.2		2-60" brown **silty Clay**
4.0		0.2		
5.0		0.2		
6.0		0.3	60 / 60 in.	0-60" brown **silty Clay**
7.0		0.3		
8.0		0.3		
9.0		0.3		
10.0		0.3		
11.0		0.3	54 / 60 in.	0-54" brown **silty Clay**
12.0		0.3		
13.0		0.3		
14.0		0.3		
15.0		0.3		54-60" No Recovery
16.0				End of Boring
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.3 ppm
FROG-SS-308(0.0-2.0) collected at 1442
FROG-SS-308(6.5-7.0) collected at 1443

Preliminary Draft

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-309

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by E. Paleo **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 8 ft. **Location** 317614.2 N 2129973.9 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 454.9 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/24/2026 **Date Completed** 06/24/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.3	60 / 60 in.	0-2" **Loam** and top soil
2.0		0.3		
3.0		0.3		2-60" brown **silty Clay**
4.0		0.3		
5.0		0.3		
6.0		0.3	36 / 36 in.	
7.0		0.3		0-36" brown **silty Clay** with 1" of limestone at the bottom
8.0		0.3		
9.0				Refusal at 8'
10.0				
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.2 ppm
FROG-SS-309(0.0-2.0) collected at 1500
FROG-SS-309(4.0-4.5) collected at 1503

Preliminary Draft

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-310

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by E. Paleo **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 9 ft. **Location** 317588.7 N 2129953.0 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 454.5 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/24/2026 **Date Completed** 06/24/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.3	60 / 60 in.	0-2" **Loam**, top soil, and brick pieces
2.0		0.3		
3.0		0.3		2-60" brown **silty Clay** with small pebbles
4.0		0.3		
5.0		0.3		
6.0		0.3	48 / 48 in.	
7.0		0.3		0-48" brown **silty Clay**
8.0		0.3		
9.0		0.3		
10.0				Refusal at 9'
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.3 ppm
FROG-SS-310(0.0-2.0) collected at 1520
FROG-SS-310(4.5-5.0) collected at 1521

Preliminary Draft

Attachment 3

Data Summary Tables

Soil Data Summary Table - Exceedances of Direct Contact Standards Only
Frog Switch Manufacturing
600 E High Street
Carlisle, Pennsylvania

Sample ID: (Sample Depth (feet))	Medium-Specific Concentrations			FROG-SS-103 (0-2)	FROG-SS-105 (1-3)	FROG-SS-105 (13-15)	FROG-SS-108 (1-3)	FROG-SS-108 (5.5-7.5)	FROG-SS-118 (0-2)	FROG-SS-118 (10-12)	FROG-SS-119 (0-0.5)	FROG-SS-119 (0.5-1)	FROG-SS-120 (0-2)	FROG-SS-120 (2-3.5)	FROG-SS-121 (0-2)	FROG-SS-121 (20-21.5)	FROG-SS-122 (30-32)	FROG-SS-123 (17-19)	FROG-SS-126 (FLOOR)	FROG-SS-127 (FLOOR)
	Direct Contact Residential	Direct Contact Non-Residential Surface Soil	Direct Contact Non-Residential Subsurface Soil																	
Metals																				
arsenic	12	61	190,000	**16.3**	**138**	**23.8**	**38.0**	**16.9**	**18.9**	**12.7**	**16.9**	**15.4**	**12.1**	**22.0**	**22.1**	**13.8**	**14.0**	**13.8**	**9.61**	**14.3**
cobalt	66	960	190,000	**101**	**18.2**	**9.66**	**14.0**	**9.14**	**66.0**	**32.9**	**45.6**	**15.1**	**13.7**	**28.6**	**34.4**	**13.5**	**18.2**	**7.33**	**69.9**	**44.7**
iron	150,000	190,000	190,000	**73,500**	**64,600**	**50,400**	**19,400**	**29,600**	**98,200**	**83,900**	**194,000**	**50,500**	**47,200**	**62,500**	**111,000**	**30,200**	**32,300**	**41,300**	**99,900**	**158,000**
manganese	31,000	190,000	190,000	**4,780**	**8,830**	**502**	**443**	**598**	**7,580**	**924**	**60,900**	**36,900**	**13,300**	**10,700**	**8,880**	**3,070**	**2,510**	**252**	**20,300**	**30,200**
Semivolatile Organic Compounds																				
benzo(a)anthracene	6.1	130	190,000	0.050J	**0.22**	<0.13	0.033J	<0.13	<0.12	<0.12	0.15J	**0.12**	**6.6**	**1.5**	**3.8**	<0.12	<0.15	<0.12	0.040J	0.021J
benzo(b)fluoranthene	3.5	76	190,000	0.098J	**0.33**	<0.13	<0.13	<0.13	<0.12	<0.12	0.31J	**0.34**	**9.5**	**2.0**	**5.0**	<0.12	<0.15	<0.12	<0.10	<0.098
benzo(a)pyrene	4.2	91	190,000	0.063J	**0.21**	<0.18	<0.17	<0.17	<0.16	<0.16	<0.72	**0.21**	**6.7**	**1.5**	**3.7**	<0.16	<0.20	<0.16	<0.13	<0.13
indeno (1,2,3-cd) pyrene	3.5	76	190,000	0.051J	0.14J	<0.18	<0.17	<0.17	<0.16	<0.16	0.16J	**0.18**	**3.8**	**1.0**	**2.5**	<0.16	<0.20	<0.16	<0.13	<0.13

Sample ID: (Sample Depth (feet))	Medium-Specific Concentrations			FROG-SS-202 (5-5.5)	FROG-SS-202 (7.5-8)	FROG-SS-202 (9-9.5)	FROG-SS-206 (0.5-2)	FROG-SS-206 (10.5-11)	FROG-SS-207 (0.5-2)	FROG-SS-207 (4.5-5)	FROG-SS-207 (5.5-6)	FROG-SS-207 (6.5-7)	FROG-SS-208 (0-2)	FROG-SS-208 (12-12.5)	FROG-SS-210 (9.5-10)	FROG-SS-210 (14.5-15)	FROG-SS-211 (0-2)	FROG-SS-212 (0-2)	FROG-SS-212 (4.5-5)	FROG-SS-212 (5-7)
	Direct Contact Residential	Direct Contact Non-Residential Surface Soil	Direct Contact Non-Residential Subsurface Soil																	
Metals																				
arsenic	12	61	190,000	**18.8**	**16.8**	**18.2**	**13.3**	**20.0**	**38.9**	**14.8**	**29.6**	**55.5**	**37.4**	**19.0**	**15.4**	**23**	**16.5**	**15.6**	**6.78**	-
cobalt	66	960	190,000	-	-	-	-	-	-	-	-	-	-	-	**17.8**	**12.7**	**63.4**	**57.2**	**75.1**	-
iron	150,000	190,000	190,000	-	-	-	**37,200**	**40,900**	**84,100**	**70,200**	**103,000**	**54,600**	**144,000**	**44,900**	-	-	-	-	-	-
manganese	31,000	190,000	190,000	-	-	-	**925**	**536**	**51,600**	**615**	**904**	**814**	**6500**	**891**	-	-	-	-	-	-
Semivolatile Organic Compounds																				
2-methylnaphthalene	57	240	270	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**69**
benzo(a)anthracene	6.1	130	190,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1.6
benzo(b)fluoranthene	3.5	76	190,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1.6
benzo(a)pyrene	4.2	91	190,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<2.1
indeno (1,2,3-cd) pyrene	3.5	76	190,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<2.1

Notes:

Sample results are compared to PADEP Direct Contact MSCs under 25 Pa. Code Chapter 250, Administration of the Land Recycling Program.

Grey results are not detected above the laboratory reporting limit

Bold results are detected above laboratory reporting limit

Yellow Highlighted results exceed the PADEP direct contact numeric values for residential soil

Orange Highlighted results exceed the PADEP direct contact numeric values for non-residential soil

J: Estimated value. The target analyte concentration is below the laboratory reporting limit, but above the method detection limit

Values following < are the laboratory reporting limit

All values are expressed in milligrams per kilogram (mg/kg) = 1 part per million (ppm)

100-series samples collected by Volpe (October 2025); 200- and 300-series samples collected by Volpe (June, 2026)

Soil Data Summary Table - Exceedances of Direct Contact Standards Only
Frog Switch Manufacturing
600 E High Street
Carlisle, Pennsylvania

Sample ID: (Sample Depth (feet))	Medium-Specific Concentrations			FROG-SS-217 (4-5)	FROG-SS-217 (11-12)	FROG-SS-218 (9-10)	FROG-SS-219 (5.5-6.5)	FROG-SS-221 (4-5)	FROG-SS-222 (4-4.5)	FROG-SS-222 (10.5-11.5)	FROG-SS-301 (9-9.5)	FROG-SS-304 (14.5-15)	FROG-SS-307 (8-8.5)
	Direct Contact Residential	Direct Contact Non-Residential Surface Soil	Direct Contact Non-Residential Subsurface Soil										
Metals													
arsenic	12	61	190,000	**19.5**	**17.6**	**17.0**	**17.2**	**25.3**	-	**13.7**	**12.4**	**24.3**	**13.1**
Semivolatile Organic Compounds													
2-methylnaphthalene	57	240	270	0.038J	<0.26	<0.24	<0.25	0.054J	**0.38**	<0.26	-	-	-
benzo(a)anthracene	6.1	130	190,000	**0.62**	<0.13	<0.12	<0.13	**0.55**	**5.4**	<0.13	-	-	-
benzo(b)fluoranthene	3.5	76	190,000	**0.48**	<0.13	<0.12	<0.13	**0.61**	**6.4**	<0.13	-	-	-
benzo(a)pyrene	4.2	91	190,000	**0.39**	<0.17	<0.16	<0.17	**0.48**	**4.8**	<0.17	-	-	-
indeno (1,2,3-cd) pyrene	3.5	76	190,000	**0.19**	<0.17	<0.16	<0.17	**0.28**	**3**	<0.17	-	-	-

Notes:

Sample results are compared to PADEP Direct Contact MSCs under 25 Pa. Code Chapter 250, Administration of the Land Recycling Program.

Grey results are not detected above the laboratory reporting limit

Bold results are detected above laboratory reporting limit

Yellow Highlighted results exceed the PADEP direct contact numeric values for residential soil

Orange Highlighted results exceed the PADEP direct contact numeric values for non-residential soil

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100-series samples collected by Volpe (October 2025); 200- and 300-series samples collected by Volpe (June, 2026)