

March 1, 2024

Mr. James R. Curtis
Chief, Geologic and Waste Assessment Unit
Illinois Department of Transportation
Bureau of Design and Environment
2300 South Dirksen Parkway
Springfield, IL 62764

Re: **IDOT Job No.:** N/A
District: 5
County: Champaign
Municipality: Pesotum
Route: FAI 57
Marked: I-57
Street: N/A
From To/At: NB/SB Pesotum
Rest Areas

PTB: 206-054 / Andrews9
Work Order No.: 010
BDE Sequence No.: 25405/25407
Contract No.: 70G29
Section No.: N/A
ISGS PESA No.: 4521
Anticipated Letting Date: 06/27/2025
Target PSI Completion: 02/16/2024
IDOT Project Manager: Douglas Liniger
Andrews Project Manager: Steven Gobelman

Dear Mr. Curtis:

With this letter Andrews Engineering, Inc. is transmitting an electronic copy of the draft letter report for the investigation of the Northbound (NB) and Southbound (SB) Illini Prairie Rest Areas along FAI 57 (I-57) in Pesotum, Champaign County, Illinois (**Figure 1**). Andrews has revised the draft PSI letter report based on IDOT comments in the February 21, 2024 letter for the above referenced project. IDOT's comments (in ***bold italic*** font) and Andrew's responses are provided below.

IDOT Comment 1:

In reviewing the Web Soil Survey under Soil Data Explorer, the rating for Septic Tank Absorption Fields is listed as "Very Limited" for the entire area. A copy of the soil survey map showing the Soil Data Explorer information would be beneficial to the designers of the septic system that is proposed.

Response:

A copy of the soil survey map is attached as Appendix D.

IDOT Comment 2:

BDE was notified on 2/21/25 that the project will be let on June 27, 2025.

Response:

The report has been revised accordingly.

This PSI letter report evaluated the soil conditions at the NB and SB Illini Prairie Rest Areas to determine the feasibility of installing a septic tank/leachate field within the designated areas.

In general, the shallow soils within Illini Prairie Rest Areas the total thickness of surficial deposits has been mapped as approximately 100-200 feet. The topmost unit has been mapped as more than 20 feet of the Wedron Group. The Wedron Group consists of silty and clayey glacial deposits. A detailed description of project geology and hydrogeology is presented in ISGS PESA 4521 in **Appendix A**.

The NRCS has classified the Drummer silt clay loam, bench (0 to 2 percent slopes) and Flanagan silt loam (0 to 2 percent slopes). According to NRCS Official Soil Series Description (OSD), masses of oxidized iron-manganese in the matrix are present in the Drummer and Flanagan series. None of the soils have been classified as non-prime farmland soils by the NRCS. In addition, the use of the on-site soils as a septic absorption field is very limited. Results from NRCS and OSD websites for the project area can be found in **Appendix D**.

Based on the soil borings, in general the top foot consists of black organic topsoil material, 1 to 3 feet below ground surface (bgs) contains sand to sandy silt loam, and 3 to 5 feet bgs the soil material changes to a sandy clay loam, silty clay, or clay loam with a design groups of VI, VIII, IX, X, and XII. Boring logs are presented in **Appendix B** with the designated USDA soil classification and design groups.

On January 4 and 5, 2024, Andrews and Environmental Soil Probing Corp. (ESP) advanced 22 soil borings using a Geoprobe® direct-push sampling rig. Soil samples were collected from the soil borings to define the general nature and extent of potential contamination related to the project site. After each boring was completed, the sampler was decontaminated with an Alconox® and distilled water solution. Each borehole was backfilled with bentonite chips.

All soil samples were field screened by visual and olfactory methods for the presence of contamination and then field screened with a photoionization detector (PID) for the presence of volatile organic compounds (VOCs). Soil cores were screened in two-foot intervals using a calibrated MiniRAE 3000+ portable PID. Andrews logged each soil boring by recording the depth interval, percent recovery, soil description, and headspace screening results.

Andrews collected 24 soil samples, including two duplicate samples, from the rest areas for laboratory analysis. Soil samples were collected from each soil boring in accordance with SW-846. Soil samples (including eight trip blanks) designated for analysis were placed into laboratory grade containers and delivered to Teklab, Inc. in Collinsville, Illinois. Sample identification, documentation, and chain-of-custody were conducted in accordance with the approved SOPs. Each soil sample was analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals, Toxicity Characteristic Leaching Procedure (TCLP) and Synthetic Precipitation Leaching Procedure (SPLP) metals, pH and percent solids. The trip blank soil samples were analyzed for VOCs only. Laboratory data reports are presented in **Appendix C**.

Soil analytical results for each parameter are compared to the Illinois EPA's table titled *Summary of Maximum Allowable Concentrations of Chemical Constituents in Uncontaminated Soil Used as Fill Material At Regulated Fill Operations (35 Ill. Adm. Code 1100.Subpart F)*. The project location is located within a populated area within Will County, which is a Metropolitan Statistical Area

(MSA) county (Appendix A, Table G of 35 Ill. Adm. Code Part 742: Tiered Approach for Corrective Action Objectives [TACO]). Where applicable, the soil analytical results for relevant parameters are compared to the most stringent Tier 1 soil remediation objective for residential properties, as presented in Appendix B, Table A of TACO, and the most stringent Construction Worker objective, as presented in Appendix B, Table B of TACO.

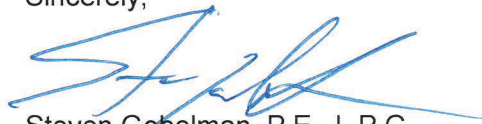
TCLP and SPLP analytical results are compared to TACO Class I groundwater remediation objectives. The magnitude of the analytical results relative to the screening levels determines how and where excavated soils are to be managed. Report qualifiers and acronyms for analytical tables are shown in **Table 1**. **Table 2** provides the parameters and laboratory reporting limits which exceed the Maximum Allowable Concentrations (MACs).

Table 2 includes a note regarding parameters Pentachlorophenol and N-Nitrosodi-n-propylamine. It is difficult to develop Pentachlorophenol and N-Nitrosodi-n-propylamine MDLs at or below the respective MAC values. Elevated MDLs and reporting limits for four VOCs associated with one soil sample are listed in **Table 2**. Soils associated with this sample do not qualify for CCDD/USFO disposal based on other exceedances. The analytical results for soil samples are shown in **Table 3a-b**. The contaminants of concerns for the site soils are provided in **Table 4**.

The boring locations for site 024 and 026 and the proper management of the potentially excavated soils were based on the results of Andrews' investigation and presented on **Figures 2 and 3**.

If you have any questions regarding the work plan, please contact me at (217) 787-2334. Thank you.

Sincerely,



Steven Gobelman, P.E., L.P.G.
Senior Project Director

SLG:tsh

Enclosure

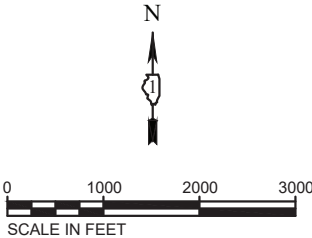


PROJECT AND SITE LOCATION MAP
ISGS SITE 4521
FAI 57 (I-57)



NOTE

BACKGROUND IMAGE DERIVED FROM
GOOGLE MAPS WEBSITE.



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PROJECT LOCATION



**ANDREWS
ENGINEERING**
3300 GINGER CREEK DRIVE
SPRINGFIELD, ILLINOIS 62711-7233
PH (217) 787-2334 WWW.ANDREWS-ENG.COM
PONTIAC, IL • LOMBARD, IL • INDIANAPOLIS, IN • WARRENTON, OR



APPROVED BY: SLG DESIGNED BY: IDOT DRAWN BY: BCK

PROJECT LOCATION MAP

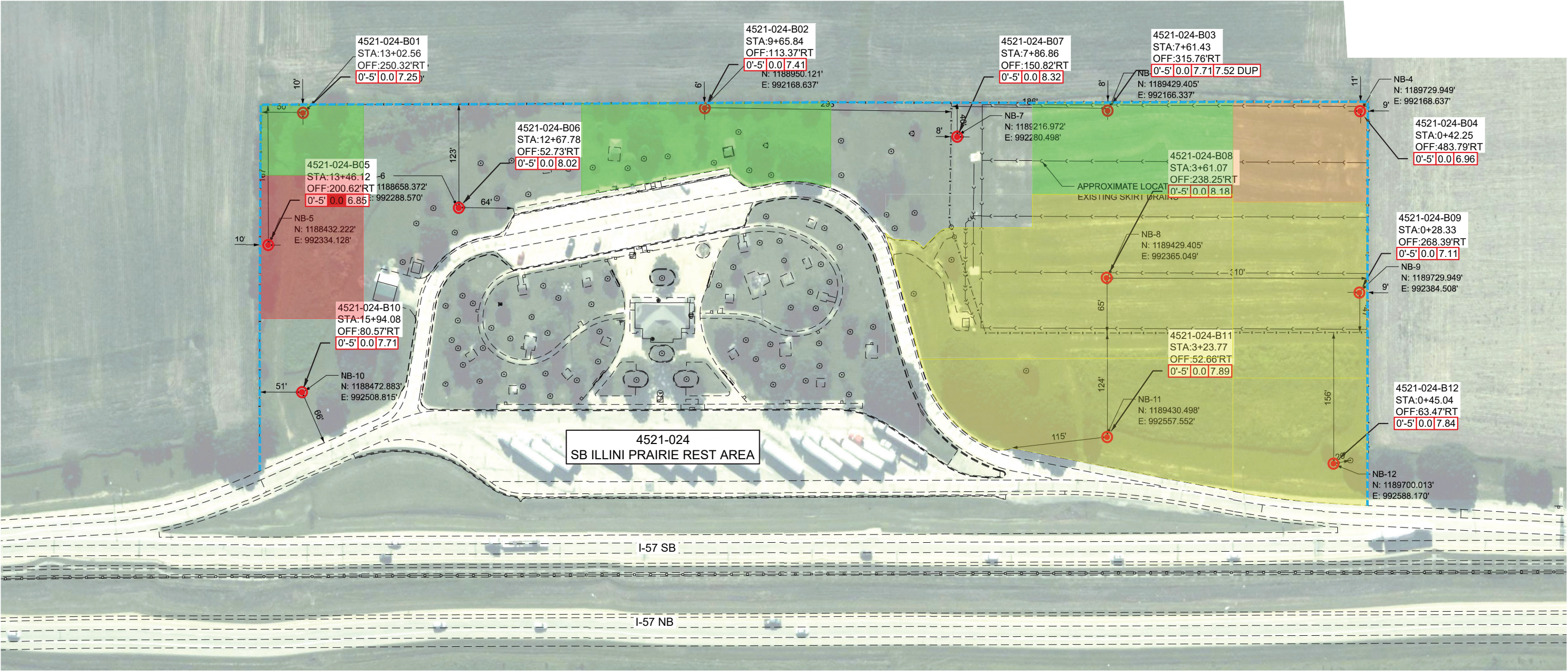
PREPARED FOR
ILLINOIS DEPARTMENT OF TRANSPORTATION
ISGS SITE 4521
SECTION NO. RA 2023-1
FAI 57 (I-57)
PESOTUM, CHAMPAIGN COUNTY, ILLINOIS

DATE: DECEMBER 2023

PROJECT ID: AE9-001 S2

SHEET NUMBER:

FIG. 1

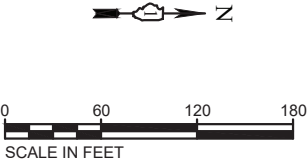


NOTES

1. BASE DRAWING TAKEN FROM PDF FILES PROVIDED BY IDOT.

LEGEND

	SOIL BORING LOCATION
	PESA SITE BOUNDARY
	PID EXCEEDS BACKGROUND VALUE OR pH OUTSIDE ACCEPTABLE RANGE FOR CCDD DISPOSAL
	DEPTH PID pH
	669.05(a)(1)
	669.05(a)(2)
	669.05(a)(5)
	669.05(c)



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APPROVED BY:	SLG	DESIGNED BY:	IDOT	DRAWN BY:	BCK	NO.	DATE	REVISION DESCRIPTION	BY
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

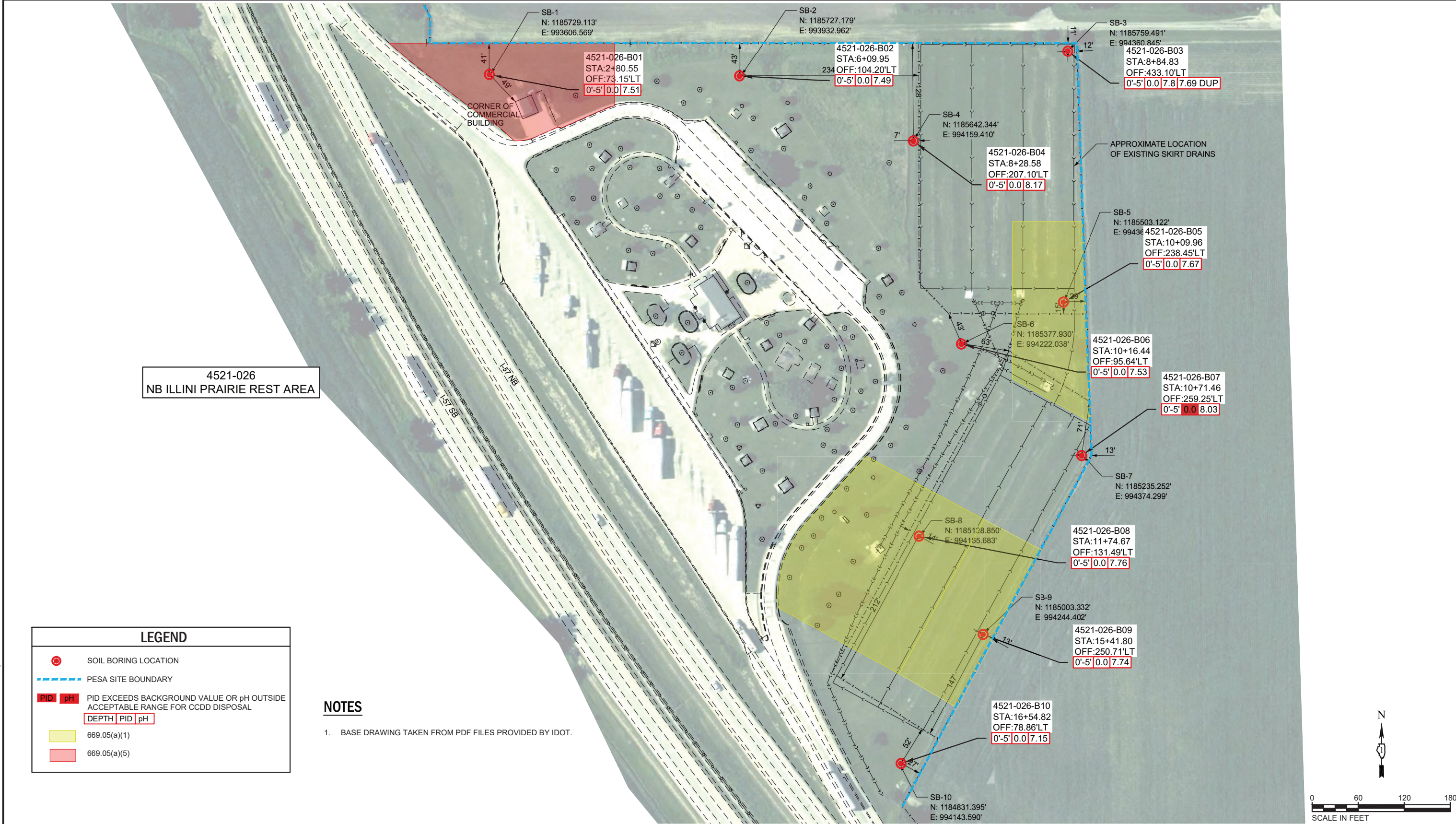
BORING LOCATION MAP

PREPARED FOR
ILLINOIS DEPARTMENT OF TRANSPORTATION
ISGS SITE 4521
SECTION NO. RA 2023-1
FAI 57 (I-57)
PESOTUM, CHAMPAIGN COUNTY, ILLINOIS

DATE:
FEBRUARY 2024
PROJECT ID:
AE9-010
SHEET NUMBER:

FIG. 2

Tab: FIGURE 2 Last Saved: February 9, 2024, by Ben Kurpius Plotted: Friday, February 9, 2024 2:48:25 PM T:\IDOT\Combined\AE9-010\Illini Prairie\DWG\REPORT\AE9-010 ILLINI PRAIRIE REST AREA PSI.dwg



LEGEND

SOIL BORING LOCATION

PESA SITE BOUNDARY

PID

pH

PID EXCEEDS BACKGROUND VALUE OR pH OUTSIDE ACCEPTABLE RANGE FOR CCDD DISPOSAL

DEPTH

PID

pH

669.05(a)(1)

DEPTH

PID

pH

669.05(a)(5)

NOTES

1. BASE DRAWING TAKEN FROM PDF FILES PROVIDED BY IDOT.

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APPROVED BY:	SLG	DESIGNED BY:	IDOT	DRAWN BY:	BCK	NO.	DATE	REVISION DESCRIPTION	BY



**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BORING LOCATION MAP

PREPARED FOR
ILLINOIS DEPARTMENT OF TRANSPORTATION
ISGS SITE 4521
SECTION NO. RA 2023-1
FAI 57 (I-57)
PESOTUM, CHAMPAIGN COUNTY, ILLINOIS

DATE:
FEBRUARY 2024

PROJECT ID:
AE9-010

SHEET NUMBER:
FIG. 3

APPENDIX B: BORING LOGS

ANDREWS ENGINEERING, INC.3300 Ginger Creek Drive
Springfield, Illinois 62711**Boring Number: 024-B01****Date Started:** 01/04/2024**Date Completed:** 01/04/2024**Project No:** AE9-010**Project:** PTB 206-054**Location:** Illini Prairie Rest Area Southbound**Borehole Logger:** Taylor Walker**Drilling Company:** CSD Environmental Services, Inc.**Driller:** Jack Andel**Drill Method:** GeoProbe Direct Push**Helper:** NA**Easting:** 992170.13**Northing:** 1188474.96**Datum:** NAD 83

SUBSURFACE PROFILE			SAMPLE			PID Value ppm		Comments
Depth	Symbol	Description	Run Number	Type	Recovery	PID Value ppm		
						5	10	

Note 1: Groundwater not encountered.

Note 2: Groundwater depth after drilling - DRY.

Note 3:

Sheet: 1 of 1

ANDREWS ENGINEERING, INC.3300 Ginger Creek Drive
Springfield, Illinois 62711**Boring Number: 024-B02****Date Started:** 01/04/2024**Date Completed:** 01/04/2024**Project No:** AE9-010**Project:** PTB 206-054**Location:** Illini Prairie Rest Area Southbound**Borehole Logger:** Taylor Walker**Drilling Company:** CSD Environmental Services, Inc.**Driller:** Jack Andel**Drill Method:** GeoProbe Direct Push**Helper:** NA**Easting:** 992164.39**Northing:** 1188952.80**Datum:** NAD 83

SUBSURFACE PROFILE			SAMPLE			PID Value ppm 5 10 15 20 25 30 35 40 45 PID Value ppm 20 40 60 80	Comments
Depth	Symbol	Description	Run Number	Type	Recovery		
0		Ground Surface					
		Black silty CLAY (topsoil); grass					
1							
2		Gray sandy CLAY; black veins; slightly soft					0
3		Orange SAND; with pea gravel USDA: Loamy Sand; Design Group: VI	1		5.0/5		0
4		Brown sandy CLAY; firm USDA: Sandy Clay Loam; Design Group: VIII					0
5		Black CLAY; firm USDA: Clay; Design Group: XII					0
		5 feet, Total Depth					
6							
7							
8							
9							
10							
11							
12							

Note 1: Groundwater not encountered.

Sheet: 1 of 1

Note 2: Groundwater depth after drilling - DRY.

Note 3:

ANDREWS ENGINEERING, INC.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Boring Number: 024-B03

Date Started: 01/04/2024
Date Completed: 01/04/2024

Project No: AE9-010 **Project:** PTB 206-054 **Location:** Illini Prairie Rest Area Southbound
Borehole Logger: Taylor Walker **Drilling Company:** CSD Environmental Services, Inc. **Driller:** Jack Andel
Drill Method: GeoProbe Direct Push **Helper:** NA
Easting: 992167.46 **Northing:** 1189432.08 **Datum:** NAD 83

SUBSURFACE PROFILE			SAMPLE			PID Value ppm		Comments
Depth	Symbol	Description	Run Number	Type	Recovery	PID Value ppm		
						PID Value ppm		
						5	10 15 20 25 30 35 40 45	
						20	40 60 80	
0		Ground Surface						0 0 0 0
1		Black silty CLAY (topsoil); grass; firm	1		4.0/5			
2		Tan SAND; moist USDA: Loamy Sand; Design Group VI						
3		Black sandy CLAY; gray veins; firm USDA: Sandy Clay Loam; Design Group: VII						
4		Tan/brown CLAY; soft USDA: Clay; Design Group: XII						
5		5 feet, Total Depth						
6								
7								
8								
9								
10								
11								
12								

Note 1: Groundwater not encountered. Sheet: 1 of 1
Note 2: Groundwater depth after drilling - DRY.
Note 3:

ANDREWS ENGINEERING, INC.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Boring Number: 024-B04

Date Started: 01/04/2024
Date Completed: 01/04/2024

Project No: AE9-010 **Project:** PTB 206-054 **Location:** Illini Prairie Rest Area Southbound
Borehole Logger: Taylor Walker **Drilling Company:** CSD Environmental Services, Inc. **Driller:** Jack Andel
Drill Method: GeoProbe Direct Push **Helper:** NA
Easting: 992168.00 **Northing:** 1189732.26 **Datum:** NAD 83

SUBSURFACE PROFILE			SAMPLE			PID Value ppm 5 10 15 20 25 30 35 40 45		Comments	
Depth	Symbol	Description	Run Number	Type	Recovery	PID Value ppm 20 40 60 80			
0		Ground Surface						0	
		Black silty CLAY (topsoil); grass	1						5.0/5
1		Tan/orange SAND USDA: Loamy Sand; Design Group: VI							
2		Black sandy CLAY; firm USDA: Clay Loam; Design Group: IX							
3		Tan/brown sandy CLAY; orange veins; very hard USDA: Clay Loam; Design Group: XII							
4								0	
5								0	
6									
7									
8									
9									
10									
11									
12									
5 feet, Total Depth									

Note 1: Groundwater not encountered. Sheet: 1 of 1
Note 2: Groundwater depth after drilling - DRY.
Note 3:

ANDREWS ENGINEERING, INC.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Boring Number: 024-B05

Date Started: 01/04/2024
Date Completed: 01/04/2024

Project No: AE9-010 **Project:** PTB 206-054 **Location:** Illini Prairie Rest Area Southbound
Borehole Logger: Taylor Walker **Drilling Company:** CSD Environmental Services, Inc. **Driller:** Jack Andel
Drill Method: GeoProbe Direct Push **Helper:** NA
Easting: 992327.28 **Northing:** 1188433.71 **Datum:** NAD 83

SUBSURFACE PROFILE			SAMPLE			PID Value ppm 5 10 15 20 25 30 35 40 45		Comments
Depth	Symbol	Description	Run Number	Type	Recovery	PID Value ppm 20 40 60 80		
0		Ground Surface						0 0 0 0
		Black silty CLAY (topsoil); grass	1		5.0/5			
1		Dark brown sandy CLAY; hard USDA: Sandy Clay Loam; Design Group: VIII						
2		Tan/brown silty CLAY; soft USDA: Clay Loam; Design Group: IX						
3								
4								
5		Tan/orange SAND; moist USDA: Loamy Sand; Design Group: VI						
6		5 feet, Total Depth						
7								
8								
9								
10								
11								
12								

Note 1: Groundwater not encountered.

Note 2: Groundwater depth after drilling - DRY.

Note 3:

ANDREWS ENGINEERING, INC.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Boring Number: 024-B06

Date Started: 01/04/2024
Date Completed: 01/04/2024

Project No: AE9-010 **Project:** PTB 206-054 **Location:** Illini Prairie Rest Area Southbound
Borehole Logger: Taylor Walker **Drilling Company:** CSD Environmental Services, Inc. **Driller:** Jack Andel
Drill Method: GeoProbe Direct Push **Helper:** NA
Easting: 992282.98 **Northing:** 1188660.28 **Datum:** NAD 83

SUBSURFACE PROFILE			SAMPLE			PID Value ppm 5 10 15 20 25 30 35 40 45 PID Value ppm 20 40 60 80	Comments
Depth	Symbol	Description	Run Number	Type	Recovery		
0		Ground Surface					
		Black silty CLAY (topsoil); grass					
1							
2		Tan/brown sandy CLAY; orange veins; hard USDA: Clay Loam; Design Group: IX	1		5.0/5		0
3							0
4		Black CLAY; hard USDA: Clay; Design Group: XII					0
5		5 feet, Total Depth					
6							
7							
8							
9							
10							
11							
12							

Note 1: Groundwater not encountered. Sheet: 1 of 1
Note 2: Groundwater depth after drilling - DRY.
Note 3:

ANDREWS ENGINEERING, INC.3300 Ginger Creek Drive
Springfield, Illinois 62711**Boring Number: 024-B07****Date Started:** 01/04/2024**Date Completed:** 01/04/2024**Project No:** AE9-010**Project:** PTB 206-054**Location:** Illini Prairie Rest Area Southbound**Borehole Logger:** Taylor Walker**Drilling Company:** CSD Environmental Services, Inc.**Driller:** Jack Andel**Drill Method:** GeoProbe Direct Push**Helper:** NA**Easting:** 992198.52**Northing:** 1189253.06**Datum:** NAD 83

SUBSURFACE PROFILE			SAMPLE			PID Value ppm 5 10 15 20 25 30 35 40 45 PID Value ppm 20 40 60 80	Comments
Depth	Symbol	Description	Run Number	Type	Recovery		
0		Ground Surface					
		Black silty CLAY (topsoil); grass					
1							
2		Tan/brown sandy CLAY; gray veins; firm USDA: Clay Loam; Design Group: IX	1		5.0/5		0
3							0
4		Tan sandy CLAY; gray shale; orange veins; firm USDA: Clay Loam; Design Group: IX					0
5							0
		5 feet, Total Depth					
6							
7							
8							
9							
10							
11							
12							

Note 1: Groundwater not encountered.

Sheet: 1 of 1

Note 2: Groundwater depth after drilling - DRY.

Note 3:

ANDREWS ENGINEERING, INC.3300 Ginger Creek Drive
Springfield, Illinois 62711**Boring Number: 024-B08****Date Started:** 01/04/2024**Date Completed:** 01/04/2024**Project No:** AE9-010**Project:** PTB 206-054**Location:** Illini Prairie Rest Area Southbound**Borehole Logger:** Taylor Walker**Drilling Company:** CSD Environmental Services, Inc.**Driller:** Jack Andel**Drill Method:** GeoProbe Direct Push**Helper:** NA**Easting:** 992366.33**Northing:** 1189430.80**Datum:** NAD 83

SUBSURFACE PROFILE			SAMPLE			PID Value ppm 5 10 15 20 25 30 35 40 45 PID Value ppm 20 40 60 80	Comments
Depth	Symbol	Description	Run Number	Type	Recovery		
0		Ground Surface					
		Black silty CLAY (topsoil); grass					
1							
2		Black sandy CLAY; brown veins; hard USDA: Clay Loam; Design Group: IX	1		5.0/5		0
3							0
4		Brown silty CLAY; black, tan, gray veins; soft USDA: Silty Clay Loam; Design Group: X					0
5		5 feet, Total Depth					0
6							
7							
8							
9							
10							
11							
12							

Note 1: Groundwater not encountered.

Note 2: Groundwater depth after drilling - DRY.

Note 3:

Sheet: 1 of 1

ANDREWS ENGINEERING, INC.3300 Ginger Creek Drive
Springfield, Illinois 62711**Boring Number: 024-B09****Date Started:** 01/04/2024**Date Completed:** 01/04/2024**Project No:** AE9-010**Project:** PTB 206-054**Location:** Illini Prairie Rest Area Southbound**Borehole Logger:** Taylor Walker**Drilling Company:** CSD Environmental Services, Inc.**Driller:** Jack Andel**Drill Method:** GeoProbe Direct Push**Helper:** NA**Easting:** 992383.85**Northing:** 1189731.42**Datum:** NAD 83

SUBSURFACE PROFILE			SAMPLE			PID Value ppm 5 10 15 20 25 30 35 40 45		Comments
Depth	Symbol	Description	Run Number	Type	Recovery	PID Value ppm 20 40 60 80		
0		Ground Surface						0 0 0 0
1		Black sandy CLAY; grass; hard	1		5.0/5			
2		Black sandy CLAY; brown and gray veins; hard						
3		USDA: Clay Loam; Design Group: IX						
4		Tan silty CLAY; gray and brown veins; soft						
5		USDA: Silty Clay Loam; Design Group: X						
6		5 feet, Total Depth						
7								
8								
9								
10								
11								
12								

Note 1: Groundwater not encountered.

Note 2: Groundwater depth after drilling - DRY.

Note 3:

Sheet: 1 of 1

ANDREWS ENGINEERING, INC.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Boring Number: 024-B10

Date Started: 01/04/2024
Date Completed: 01/04/2024

Project No: AE9-010 **Project:** PTB 206-054 **Location:** Illini Prairie Rest Area Southbound
Borehole Logger: Taylor Walker **Drilling Company:** CSD Environmental Services, Inc. **Driller:** Jack Andel
Drill Method: GeoProbe Direct Push **Helper:** NA
Easting: 992502.25 **Northing:** 1188473.82 **Datum:** NAD 83

SUBSURFACE PROFILE			SAMPLE			PID Value ppm		Comments
Depth	Symbol	Description	Run Number	Type	Recovery	PID Value ppm		
						PID Value ppm		
						20	40 60 80	
0		Ground Surface						0 0 0 0
1		Black silty CLAY; grass	1		5.0/5			
2		Gray sandy CLAY; black veins; hard USDA: Clay Loam; Design Group: XII						
3		Brown silty CLAY; hard USDA: Silty Clay Loam; Design Group: XII						
4		Tan silty CLAY; orange veins; hard USDA: Silty Clay Loam; Design Group XII						
5		5 feet, Total Depth						
6								
7								
8								
9								
10								
11								
12								

Note 1: Groundwater not encountered. Sheet: 1 of 1
Note 2: Groundwater depth after drilling - DRY.
Note 3:

ANDREWS ENGINEERING, INC.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Boring Number: 024-B11

Date Started: 01/04/2024
Date Completed: 01/04/2024

Project No: AE9-010 **Project:** PTB 206-054 **Location:** Illini Prairie Rest Area Southbound
Borehole Logger: Taylor Walker **Drilling Company:** CSD Environmental Services, Inc. **Driller:** Jack Andel
Drill Method: GeoProbe Direct Push **Helper:** NA
Easting: 992555.59 **Northing:** 1189431.40 **Datum:** NAD 83

SUBSURFACE PROFILE			SAMPLE			PID Value ppm 5 10 15 20 25 30 35 40 45		Comments
Depth	Symbol	Description	Run Number	Type	Recovery	PID Value ppm 20 40 60 80		
0		Ground Surface						0 0 0 0
1		Black silty CLAY; grass	1		5.0/5			
2		Gray/black sandy CLAY; firm USDA: Clay Loam; Design Group: IX						
3		Tan silty CLAY; orange and black veins; soft USDA: Silty Clay Loam; Design Group: X						
4								
5		5 feet, Total Depth						
6								
7								
8								
9								
10								
11								
12								

Note 1: Groundwater not encountered.
Note 2: Groundwater depth after drilling - DRY.
Note 3:

ANDREWS ENGINEERING, INC.3300 Ginger Creek Drive
Springfield, Illinois 62711**Boring Number: 024-B12****Date Started:** 01/04/2024**Date Completed:** 01/04/2024**Project No:** AE9-010**Project:** PTB 206-054**Location:** Illini Prairie Rest Area Southbound**Borehole Logger:** Taylor Walker**Drilling Company:** CSD Environmental Services, Inc.**Driller:** Jack Andel**Drill Method:** GeoProbe Direct Push**Helper:** NA**Easting:** 992587.15**Northing:** 1189700.74**Datum:** NAD 83

SUBSURFACE PROFILE			SAMPLE			PID Value ppm 5 10 15 20 25 30 35 40 45		Comments
Depth	Symbol	Description	Run Number	Type	Recovery	PID Value ppm 20 40 60 80		
0		Ground Surface						0 0 0 0
		Black silty CLAY; grass	1		5.0/5			
1		Brown sandy CLAY; hard USDA: Sandy Clay Loam; Design Group: VIII						
2								
3		Gray sandy CLAY; brown veins; firm USDA: Clay Loam; Design Group: IX						
4		Gray silty CLAY; orange and tan veins; soft USDA: Silty Clay Loam; Design Group: X						
5		5 feet, Total Depth						
6								
7								
8								
9								
10								
11								
12								

Note 1: Groundwater not encountered.

Sheet: 1 of 1

Note 2: Groundwater depth after drilling - DRY.

Note 3:

ANDREWS ENGINEERING, INC.

3300 Ginger Creek Drive
Springfield, Illinois 62711

Boring Number: 026-B01

Date Started: 01/05/2024

Date Completed: 01/05/2024

Project No: AE9-010

Project: PTB 206-054

Location: Illini Prairie Rest Area Northbound

Borehole Logger: Taylor Walker

Drilling Company: CSD Environmental Services, Inc.

Driller: Jack Andel

Drill Method: GeoProbe Direct Push

Helper: NA

Easting: 993608.64

Northing: 1185730.50

Datum: NAD 83

SUBSURFACE PROFILE			SAMPLE			PID Value ppm		Comments
Depth	Symbol	Description	Run Number	Type	Recovery	5 10 15 20 25 30 35 40 45		
						PID Value ppm		
						20	40 60 80	
0		Ground Surface						0 0 0 0
		Black silty CLAY; grass; firm	1	Type	5.0/5			
1								
2		Brown sandy CLAY; tan veins; very hard USDA: Sandy Loam; Design Group: VI						
3		Black sandy CLAY; firm USDA: Sandy Clay Loam; Design Group: VIII						
4		Tan sandy CLAY; black veins; very hard USDA: Sandy Loam; Design Group: VI						
5		5 feet, Total Depth						
6								
7								
8								
9								
10								
11								
12								

Note 1: Groundwater not encountered.

Sheet: 1 of 1

Note 2: Groundwater depth after drilling - DRY.

Note 3:

ANDREWS ENGINEERING, INC.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Boring Number: 026-B02

Date Started: 01/05/2024
Date Completed: 01/05/2024

Project No: AE9-010 **Project:** PTB 206-054 **Location:** Illini Prairie Rest Area Northbound
Borehole Logger: Taylor Walker **Drilling Company:** CSD Environmental Services, Inc. **Driller:** Jack Andel
Drill Method: GeoProbe Direct Push **Helper:** NA
Easting: 993934.87 **Northing:** 1185728.64 **Datum:** NAD 83

SUBSURFACE PROFILE			SAMPLE			PID Value ppm 5 10 15 20 25 30 35 40 45		Comments
Depth	Symbol	Description	Run Number	Type	Recovery	PID Value ppm 20 40 60 80		
0		Ground Surface						0
1		Black silty CLAY; grass firm	1		5.0/5			
2		Tan SAND USDA: Loamy Sand; Design Group: VI						
3		Brown sandy CLAY; firm USDA: Sandy Clay Loam; Design Group: VIII						
4		Black silty SAND; firm USDA: Sandy Loam; Design Group: VI						
5		5 feet, Total Depth						
6								
7								
8								
9								
10								
11								
12								

Note 1: Groundwater not encountered. Sheet: 1 of 1
Note 2: Groundwater depth after drilling - DRY.
Note 3:

ANDREWS ENGINEERING, INC.3300 Ginger Creek Drive
Springfield, Illinois 62711**Boring Number: 026-B03****Date Started:** 01/05/2024**Date Completed:** 01/05/2024**Project No:** AE9-010**Project:** PTB 206-054**Location:** Illini Prairie Rest Area Northbound**Borehole Logger:** Taylor Walker**Drilling Company:** CSD Environmental Services, Inc.**Driller:** Jack Andel**Drill Method:** GeoProbe Direct Push**Helper:** NA**Easting:** 994362.73**Northing:** 1185760.92**Datum:** NAD 83

SUBSURFACE PROFILE			SAMPLE			PID Value ppm 5 10 15 20 25 30 35 40 45		Comments
Depth	Symbol	Description	Run Number	Type	Recovery	PID Value ppm 20 40 60 80		
0		Ground Surface						0 0 0 0
1		Black/brown silty CLAY; grass; firm	1		5.0/5			
2		Dark brown sandy CLAY; firm USDA: Sandy Loam; Design Group: VI						
3		Tan sandy CLAY; orange and brown veins; firm USDA: Clay Loam; Design Group: IX						
4		Black sandy CLAY; tan veins; firm USDA: Sandy Clay Loam; Design Group: VIII						
5		5 feet, Total Depth						
6								
7								
8								
9								
10								
11								
12								

Note 1: Groundwater not encountered.

Sheet: 1 of 1

Note 2: Groundwater depth after drilling - DRY.

Note 3:

ANDREWS ENGINEERING, INC.3300 Ginger Creek Drive
Springfield, Illinois 62711**Boring Number: 026-B04****Date Started:** 01/05/2024**Date Completed:** 01/05/2024**Project No:** AE9-010**Project:** PTB 206-054**Location:** Illini Prairie Rest Area Northbound**Borehole Logger:** Taylor Walker**Drilling Company:** CSD Environmental Services, Inc.**Driller:** Jack Andel**Drill Method:** GeoProbe Direct Push**Helper:** NA**Easting:** 994161.41**Northing:** 1185643.83**Datum:** NAD 83

SUBSURFACE PROFILE			SAMPLE			PID Value ppm 5 10 15 20 25 30 35 40 45		Comments
Depth	Symbol	Description	Run Number	Type	Recovery	PID Value ppm 20 40 60 80		
0		Ground Surface						0 0 0 0 0
1		Brown silty CLAY; grass; firm	1		5.0/5			
2		Brown sandy CLAY; with pea gravel; firm						
3		USDA: Sandy Clay Loam; Design Group: VIII						
4		Tan silty CLAY; orange and olive veins; slightly soft						
5		USDA: Silty Clay Loam; Design Group: X						
5 feet, Total Depth								
6								
7								
8								
9								
10								
11								
12								

Note 1: Groundwater not encountered.

Sheet: 1 of 1

Note 2: Groundwater depth after drilling - DRY.

Note 3:

ANDREWS ENGINEERING, INC.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Boring Number: 026-B05

Date Started: 01/05/2024
Date Completed: 01/05/2024

Project No: AE9-010 **Project:** PTB 206-054 **Location:** Illini Prairie Rest Area Northbound
Borehole Logger: Taylor Walker **Drilling Company:** CSD Environmental Services, Inc. **Driller:** Jack Andel
Drill Method: GeoProbe Direct Push **Helper:** NA
Easting: 994356.96 **Northing:** 1185433.94 **Datum:** NAD 83

SUBSURFACE PROFILE			SAMPLE			PID Value ppm		Comments
Depth	Symbol	Description	Run Number	Type	Recovery	PID Value ppm		
						PID Value ppm		
						5	10 15 20 25 30 35 40 45	
						20	40 60 80	
0		Ground Surface						
		Black silty CLAY; grass; firm	1	Type	5.0/5			
1		Black sandy SILT; tan veins; hard USDA: Sandy Clay Loam; Design Group: VIII					0	
2							0	
3		Tan sandy CLAY; orange and brown veins; soft USDA: Clay Loam; Design Group IX					0	
4							0	
5		5 feet, Total Depth						
6								
7								
8								
9								
10								
11								
12								

Note 1: Groundwater not encountered.

Note 2: Groundwater depth after drilling - DRY.

Note 3:

ANDREWS ENGINEERING, INC.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Boring Number: 026-B06

Date Started: 01/05/2024
Date Completed: 01/05/2024

Project No: AE9-010 **Project:** PTB 206-054 **Location:** Illini Prairie Rest Area Northbound
Borehole Logger: Taylor Walker **Drilling Company:** CSD Environmental Services, Inc. **Driller:** Jack Andel
Drill Method: GeoProbe Direct Push **Helper:** NA
Easting: 994224.01 **Northing:** 1185379.43 **Datum:** NAD 83

SUBSURFACE PROFILE			SAMPLE			PID Value ppm 5 10 15 20 25 30 35 40 45		Comments
Depth	Symbol	Description	Run Number	Type	Recovery	PID Value ppm 20 40 60 80		
0		Ground Surface						0
1		Brown silty CLAY; firm	1		5.0/5			
2		Black sandy CLAY; firm						
3		USDA: Clay Loam; Design Group: IX						
4		Red TILE (drain)						
5		Brown silty CLAY; black veins; firm						0
6		USDA: Silty Clay Loam; Design Group: X						0
7		5 feet, Total Depth						
8								
9								
10								
11								
12								

Note 1: Groundwater not encountered.
Note 2: Groundwater depth after drilling - DRY.
Note 3:

3300 Ginger Creek Drive
Springfield, Illinois 62711

Boring Number: 026-B07

Date Started: 01/05/2024

Date Completed: 01/05/2024

Project No: AE9-010

Project: PTB 206-054

Location: Illini Prairie Rest Area Northbound

Borehole Logger: Taylor Walker **Drilling Company:** CSD Environmental Services, Inc.

Driller: Jack Andel

Drill Method: GeoProbe Direct Push

Helper: NA

Easting: 994380.78

Northing: 1185234.05

Datum: NAD 83

SUBSURFACE PROFILE			SAMPLE			PID Value ppm		Comments
Depth	Symbol	Description	Run Number	Type	Recovery	PID Value ppm		
						PID Value ppm		
0		Ground Surface						
0		Black silty CLAY; grass						
1		Tan sandy CLAY; brown veins; firm USDA: Clay Loam; Design Group: IX	1		5.0/5			0
2								0
3		Tan sandy CLAY; moist; soft USDA: Clay Loam; Design Group: IX						0
4								0
5		5 feet, Total Depth						
6								
7								
8								
9								
10								
11								
12								

Note 1: Groundwater not encountered.

Sheet: 1 of 1

Note 2: Groundwater depth after drilling - DRY.

Note 3:

ANDREWS ENGINEERING, INC.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Boring Number: 026-B08

Date Started: 01/05/2024
Date Completed: 01/05/2024

Project No: AE9-010 **Project:** PTB 206-054 **Location:** Illini Prairie Rest Area Northbound
Borehole Logger: Taylor Walker **Drilling Company:** CSD Environmental Services, Inc. **Driller:** Jack Andel
Drill Method: GeoProbe Direct Push **Helper:** NA
Easting: 994168.85 **Northing:** 1185128.90 **Datum:** NAD 83

SUBSURFACE PROFILE			SAMPLE			PID Value ppm		Comments
Depth	Symbol	Description	Run Number	Type	Recovery	PID Value ppm		
						PID Value ppm		
						5	10	
0		Ground Surface						
1		Black silty CLAY; grass; firm	1		5.0/5			0
2		Dark brown sandy CLAY; gray gravel; tan veins; firm USDA: Sandy Loam; Design Group: VI						
3		Tan silty CLAY; brown veins; soft USDA: Clay Loam; Design Group: IX						
4								
5		5 feet, Total Depth						
6								
7								
8								
9								
10								
11								
12								

Note 1: Groundwater not encountered. Sheet: 1 of 1
Note 2: Groundwater depth after drilling - DRY.
Note 3:

ANDREWS ENGINEERING, INC.3300 Ginger Creek Drive
Springfield, Illinois 62711**Boring Number: 026-B09****Date Started:** 01/05/2024**Date Completed:** 01/05/2024**Project No:** AE9-010**Project:** PTB 206-054**Location:** Illini Prairie Rest Area Northbound**Borehole Logger:** Taylor Walker**Drilling Company:** CSD Environmental Services, Inc.**Driller:** Jack Andel**Drill Method:** GeoProbe Direct Push**Helper:** NA**Easting:** 994252.31**Northing:** 1185000.93**Datum:** NAD 83

SUBSURFACE PROFILE			SAMPLE			PID Value ppm 5 10 15 20 25 30 35 40 45		Comments
Depth	Symbol	Description	Run Number	Type	Recovery	PID Value ppm 20 40 60 80		
0		Ground Surface						0 0 0 0
		Black silty CLAY; grass; firm	1		5.0/5			
1		Dark brown sandy CLAY; firm USDA: Clay Loam; Design Group: IX						
2								
		Tan sandy silty CLAY; dark brown veins; firm USDA: Silty Clay Loam; Design Group: IX						
3								
4		Tan silty sandy CLAY; soft USDA: Clay Loam; Design Group: IX						
5		Dark brown silty sandy CLAY; tan veins; soft USDA: Silty Clay Loam; Design Group: X						
6								
		5 feet, Total Depth						
7								
8								
9								
10								
11								
12								

Note 1: Groundwater not encountered.

Sheet: 1 of 1

Note 2: Groundwater depth after drilling - DRY.

Note 3:

ANDREWS ENGINEERING, INC.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Boring Number: 026-B10

Date Started: 01/05/2024
Date Completed: 01/05/2024

Project No: AE9-010 **Project:** PTB 206-054 **Location:** Illini Prairie Rest Area Northbound
Borehole Logger: Taylor Walker **Drilling Company:** CSD Environmental Services, Inc. **Driller:** Jack Andel
Drill Method: GeoProbe Direct Push **Helper:** NA
Easting: 994145.47 **Northing:** 1184832.84 **Datum:** NAD 83

SUBSURFACE PROFILE			SAMPLE			PID Value ppm 5 10 15 20 25 30 35 40 45		Comments
Depth	Symbol	Description	Run Number	Type	Recovery	PID Value ppm 20 40 60 80		
0		Ground Surface						0 0 0 0
1		Black silty CLAY; grass; firm	1		5.0/5			
2		Brown sandy CLAY; firm USDA: Clay Loam; Design Group: IX						
3	Tan sandy CLAY; moist; soft USDA: Clay Loam; Design Group: IX							
4								
5		5 feet, Total Depth						
6								
7								
8								
9								
10								
11								
12								

Note 1: Groundwater not encountered.

Note 2: Groundwater depth after drilling - DRY.

Note 3:

Sheet: 1 of 1