

IDOT 199-014 – HH2 – WO#033A
FAP 348 (IL 43) Harlem Avenue – 78th Street to 91st Street – Bridgeview, IL
BDE Sequence 21158 / Section No. 2021-134-TS&SW

APPENDIX D

LPC-663 FORMS



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as
amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: IDOT 199-014 WO 33A IL 43 Harlem - PSI Office Phone Number, if available: 847-705-4122

Physical Site Location (address, including number and street):

IL 43 from 78th St. to 91st St, see attached documentation

City: Bridgeview State: IL Zip Code: 60455

County: Cook Township: _____

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.73911 Longitude: - 87.79935

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

Google Earth - Approximate center of Site

IEPA Site Number(s), if assigned: BOL: NA BOW: NA BOA: NA

Approximate Start Date (mm/dd/yyyy): _____ Approximate End Date (mm/dd/yyyy): _____

Estimated Volume of debris (cu. Yd.): _____

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Dept of Transportation, District 1

Street Address: 201 W. Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

Site Operator

Name: Illinois Dept of Transportation, District 1

Street Address: 201 W. Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)];

Refer to Figure 4-1.1 through 4-1.6 in the Final PSI Report and attachment for a list of borings with stationing.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201 (g), 1100.205(a), 1100.610];

Refer to Tables 4-2 and 4-3 in the Final PSI Report for results summary and First Environmental Laboratories, Inc. report numbers #23-11381 and #24-0059. Site specific table of results is attached to this form.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Jeremy J. Reynolds, P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Huff & Huff, Inc. / GZA GeoEnvironmental, Inc.
 Street Address: 915 Harger Road, Suite 330
 City: Oak Brook State: IL Zip Code: 60523
 Phone: 630-684-9100

Jeremy J. Reynolds, P.G.
 Printed Name:

[Signature]
 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

Feb 10, 2025
 Date:

P.E or L.P.G. Seal:

LPC-663
Uncontaminated Soil Certification Form
Attachment (MSA + Chicago)

Below is a list referenced in Section I (Source Location Information) of the attached LPC-663 Uncontaminated Soil Certification Form, which requests information about Physical Site Locations (addresses, including number and street):

ISGS Site No.	Name
3508V-1	Residences
3508V-4	Haunted Trails
3508V-5	Commercial Buildings
3508V-6	Aldi
3508V-7	Pizza Hut
3508V-11	Walgreens
3508V-12	Speedway
3508V-15	IDOT ROW
3508V-17	White Castle
3508V-18	Huntington Bank
3508V-35	Commercial Buildings
3508V-36	Unlimited Motors
3508V-40	Commercial Buildings
3508V-41	Mobil Gas Station
3508V-47	Polish & Slavic Federal Credit Union
3508V-48	Commercial Building
3508V-52	84 th Street Plaza
3508V-53	Mixed-Use Buildings
3508V-68	Lindy's Chill & Gertie's Ice Cream
3508V-69	Fifth Third Bank
3508V-70	CVS Pharmacy
3508V-71	O'Reilly Auto Parts
3508V-74	Bridgeview Plaza

ISGS Site No.	Name
3508V-75	Shell Gas Station
3508V-76	Commercial Buildings
3508V-77	Southfield Plaza
3508V-79	Rosebud Mobile Homes
3508V-83	Midland Federal Saving and Loan
3508V-86	American Sale
3508V-89	KFC
3508V-92	Salvation Army
3508V-93	Popeye's

LPC-663
Uncontaminated Soil Certification Form
Attachment (MSA + Chicago)

Below is a list referenced in Section III A (Basis for Certification and Attachments) of the attached LPC-663 Uncontaminated Soil Certification Form, which requests a description of the soil sample points and how they were determined to be sufficient in number and appropriately located:

ISGS Boring No.	Approximate Stationing
3508V-1-01	STA: Harlem Ave 189+88, 35 Left
3508V-5-01	STA: Harlem Ave 187+94, 35 Left
3508V-93-01	STA: Harlem Ave 105+65, 51 Right
3508V-93-02	STA: Harlem Ave 905+30 30 Right

FIGURE 4-1 (Page 1 of 1)
 REGULATED SUBSTANCES MANAGEMENT AREA - EXCEEDANCE TABLE
 FAP 348 (IL 43) From 78th St. to 91st St.,
 Bridgeview/Burbank, Cook County, Illinois
 BDE Sequence No.: 21158
 PTB: 199-014/HH-2, Work Order No.: 33A

Boring ID	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3508V-1-01	3508V-5-01	3508V-93-01	3508V-93-01	3508V-93-01	3508V-93-02
						(0-3)	(0-3)	(0-5)	(5-10)	(10-14)	(0-2)
						1/3/2024	1/3/2024	12/27/2023	12/27/2023	12/27/2023	12/27/2023
Excavation Area(s) [ISGS Site No.(s)]		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	3508V-1	3508V-5	3508V-93			
Parameter											
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.04	7.40	8.12	7.94	7.86	8.29
PID Readings (ppm)						0.0	0.0	0.0	0.0	0.1	0.1
VOCs, mg/kg											
Benzene	0.03	2,300	2.2	12	0.8	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SVOCs, mg/kg											
Benzo(a)anthracene	0.9 / 10.9* / 1.8	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33	<0.33	0.506
Benzo(a)pyrene	0.09 / 11.4* / 2.1	17	---	0.09	---	0.286	<0.09	<0.09	<0.09	<0.09	0.605
Benzo(b)fluoranthene	0.9 / 13.1* / 2.1	170	---	0.9	---	0.401	<0.33	<0.33	<0.33	<0.33	0.865
Benzo(k)fluoranthene	9	1,700	---	9	---	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Carbazole	0.6	6,200	---	32	---	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Dibenz(a,h)anthracene	0.09 / 1.03* / 0.42	17	---	0.09	---	<0.09	<0.09	<0.09	<0.09	<0.09	0.124
Indeno(1,2,3-cd)pyrene	0.9 / 5.77* / 1.6	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33	<0.33	0.496
Naphthalene	1.8	4100	1.8	1,600	170	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Total Metals, mg/kg											
Arsenic	11.3 / 13	61	25,000	---	750	5.4	5.9	6.4	8.2	6.3	7
Beryllium	22	410	44,000	160	1,300	0.6	0.8	0.6	0.6	0.6	0.6
Chromium	21	4100	690	230	270	22.7	24.7	19.8	20.4	17.9	16.4
Cobalt	20	12000	---	4,700	---	9.9	9.7	17.9	14.1	9.9	8.4
Iron	15,000 / 15,900	---	---	---	---	22900	24000	20900	22400	22800	17600
Lead	107	700	---	400	---	81.9	27.1	13	12	12.9	26.8
Manganese	630 / 636	4100	8,700	1,600	---	285	138	487	354	380	297
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	29.5	27.6	37.1	31.2	28.3	23
TCLP Metals, mg/L		Class I Groundwater ^{d/}									
Arsenic	0.05					<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Beryllium	0.004					<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Chromium	0.1					<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cobalt	1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Iron	5					3	0.9	<0.1	<0.1	<0.1	<0.1
Lead	0.0075					0.011	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese	0.15					1.72	1.35	0.63	0.53	1.85	<0.10
Mercury	0.002					<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SPLP Metals, mg/L		Class I Groundwater ^{d/}									
Arsenic	0.05					0.013	0.011	0.016	<0.010	<0.010	0.01
Beryllium	0.004					<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Chromium	0.1					0.065	0.078	0.037	0.024	<0.005	0.04
Cobalt	1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Iron	5					59.8	67.6	41	23.6	0.7	39.4
Lead	0.0075					0.065	0.035	0.013	0.008	<0.005	0.034
Manganese	0.15					0.32	0.31	0.19	0.1	<0.10	0.23
Mercury	0.002					<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

--- Refers to not applicable or value not available

^{a/} Soil reference concentrations from MAC table. Background values for MSA counties are included as applicable.

Inorganic Soil Reference Concentrations (xx.xx/xx.xx) Include the Most Stringent values from MAC Table / and the MSA County Value From MAC Table as Applicable.

^{b/} Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

^{c/} Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

^{d/} Soil Remediation Objective for the Groundwater Component of the Groundwater Ingestion Route, Class I Groundwater

* Soil Reference Concentration based on IEPA Corrected City of Chicago Polynuclear Aromatic Hydrocarbon Background Concentrations Memorandum, Dated November 2022.

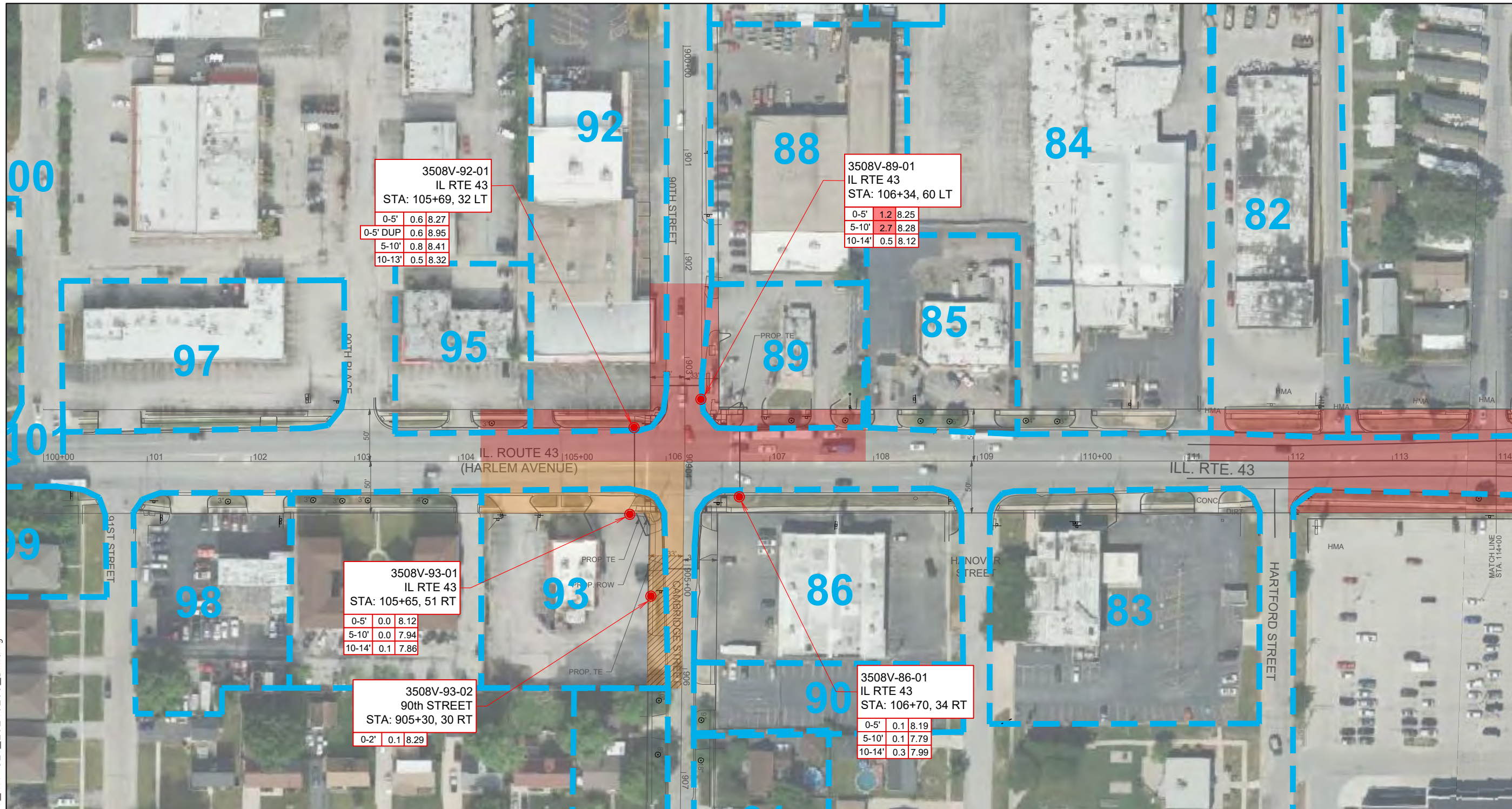
** The construction worker caution for mercury is based on elemental mercury, and mercury detected in this location is considered to be attributed to inorganic mercury salt compounds (association with coal, specifically).

When comparing results to the Soil Remediation Objectives, IDOT compares to the most stringent of the ingestion or inhalation exposure route value.

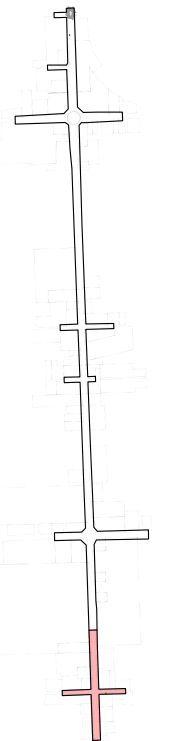
Shaded values indicate concentration exceeds reference concentration

Bold indicates concentration detected

9/16/2022 IDOT_WO#33_20240126_3.1_4.1 SET_20240209_DH.dwg



Location Legend



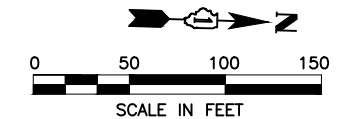
Legend

- 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)
- 669.05(a)(2)

- 669.05(a)(3)
- 669.05(a)(4)
- 669.05(a)(5)
- 669.05(a)(6)
- 669.05(b)(1)
- 669.05(b)(2)
- 669.05(c)
- 669.05(d)
- WORK ZONE

Notes:

1. Additional detail and information regarding regulated substances management and disposal classifications can be found in the Standard Specifications for Road and Bridge Construction (SSRBC) Section 669.05.
2. This figure relies on color code depictions for soil management. Please contact the DESU or AE for assistance.



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DATE	2/09/2024

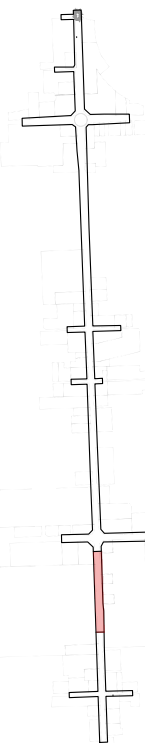


WO No. 33A	FIGURE 4-1.1 Regulated Substances Management Area
3030 WARRENVILLE RD LISLE, ILLINOIS 60532 PH (630) 507-9002	Location: IL 43 (Harlem Avenue), Bridgeview/Burbank, IL
	Contract No: 62P50
	PESA: 3508V Route FAP 348
	IDOT Job No. D-91-117-19 BDE Sequence No. 21158
	City/County Bridgeview, Burbank/Cook County

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Location Legend



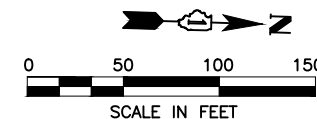
Legend

- 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)
- 669.05(a)(2)

- 669.05(a)(3)
- 669.05(a)(4)
- 669.05(a)(5)
- 669.05(a)(6)
- 669.05(b)(1)
- 669.05(b)(2)
- 669.05(c)
- 669.05(d)
- WORK ZONE

Notes:

1. Additional detail and information regarding regulated substances management and disposal classifications can be found in the Standard Specifications for Road and Bridge Construction (SSRBC) Section 669.05.
2. This figure relies on color code depictions for soil management. Please contact the DESU or AE for assistance.

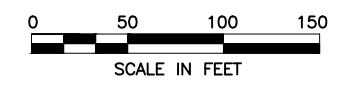
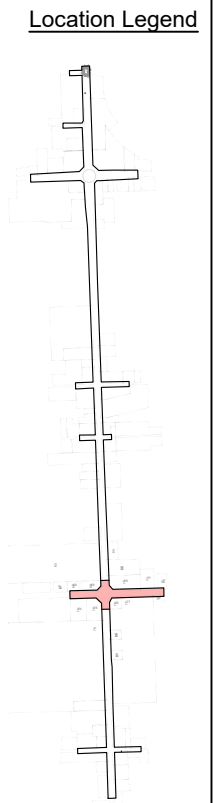
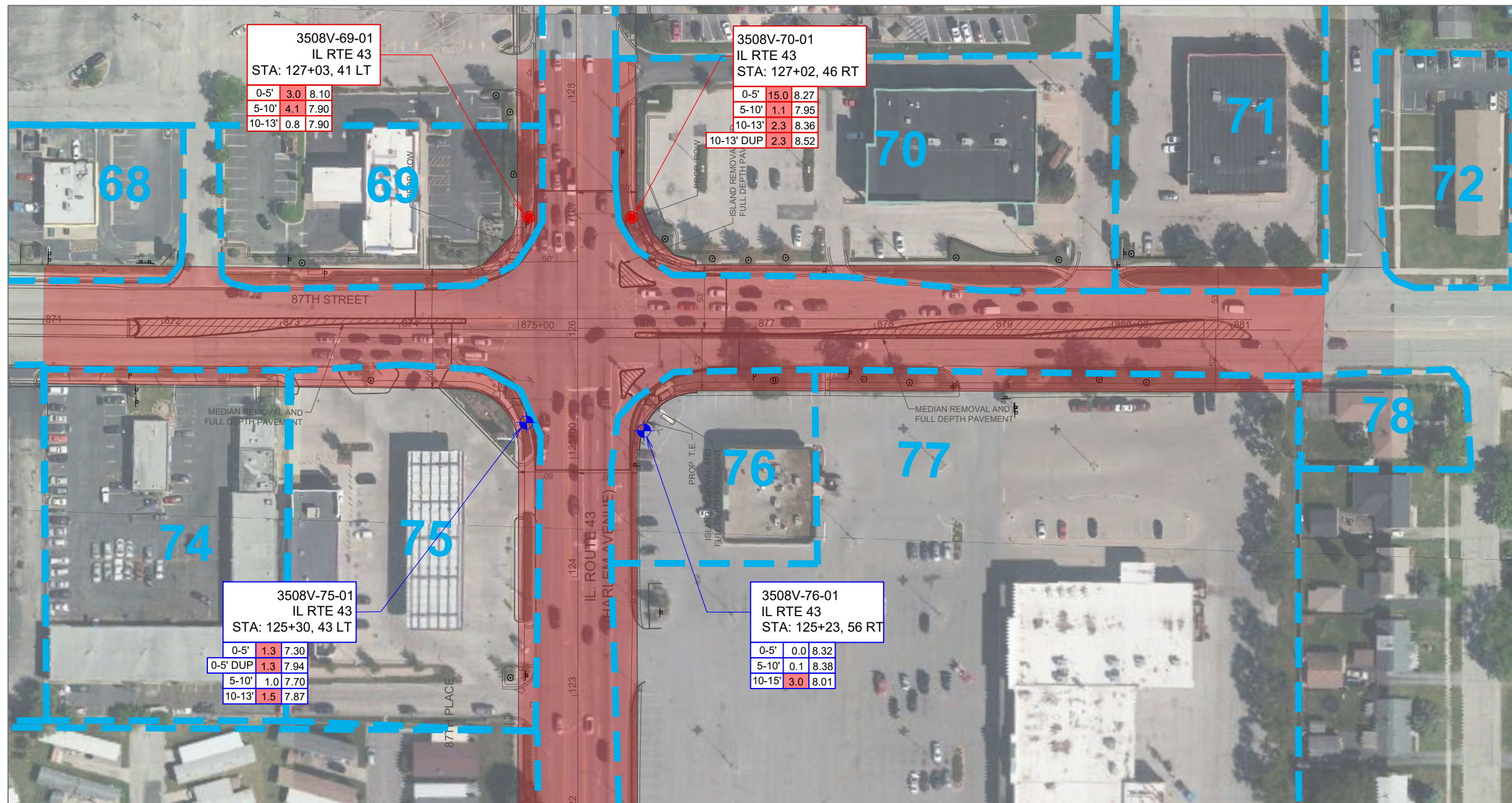


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DATE	2/09/2024



WO No. 33A	FIGURE 4-1.2 Regulated Substances Management Area	
3030 WARRENVILLE RD LISLE, ILLINOIS 60532 PH (630) 507-9002	Location: IL 43 (Harlem Avenue), Bridgeview/Burbank, IL	
	Contract No: 62P50	
	PESA: 3508V	Route FAP 348
	IDOT Job No. D-91-117-19	BDE Sequence No. 21158
	City/County Bridgeview, Burbank/Cook County	

9/16/2022 IDOT_WO#33_20240126_3.1_4.1 SET_20240209_DH.dwg



Legend

- Soil Boring Location
- Monitoring Well 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)(3)
- 669.05(a)(4)
- 669.05(a)(5)
- 669.05(a)(6)
- 669.05(b)(1)
- 669.05(b)(2)
- 669.05(c)
- 669.05(d)
- WORK ZONE

Notes:

1. Additional detail and information regarding regulated substances management and disposal classifications can be found in the Standard Specifications for Road and Bridge Construction (SSRBC) Section 669.05.
2. This figure relies on color code depictions for soil management. Please contact the DESU or AE for assistance.

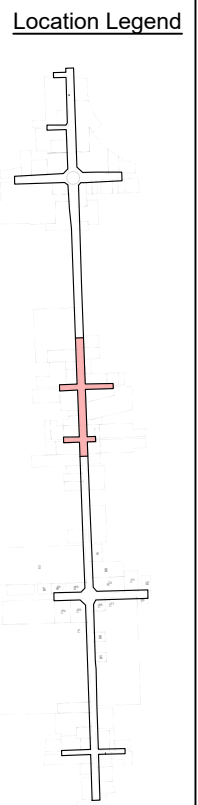
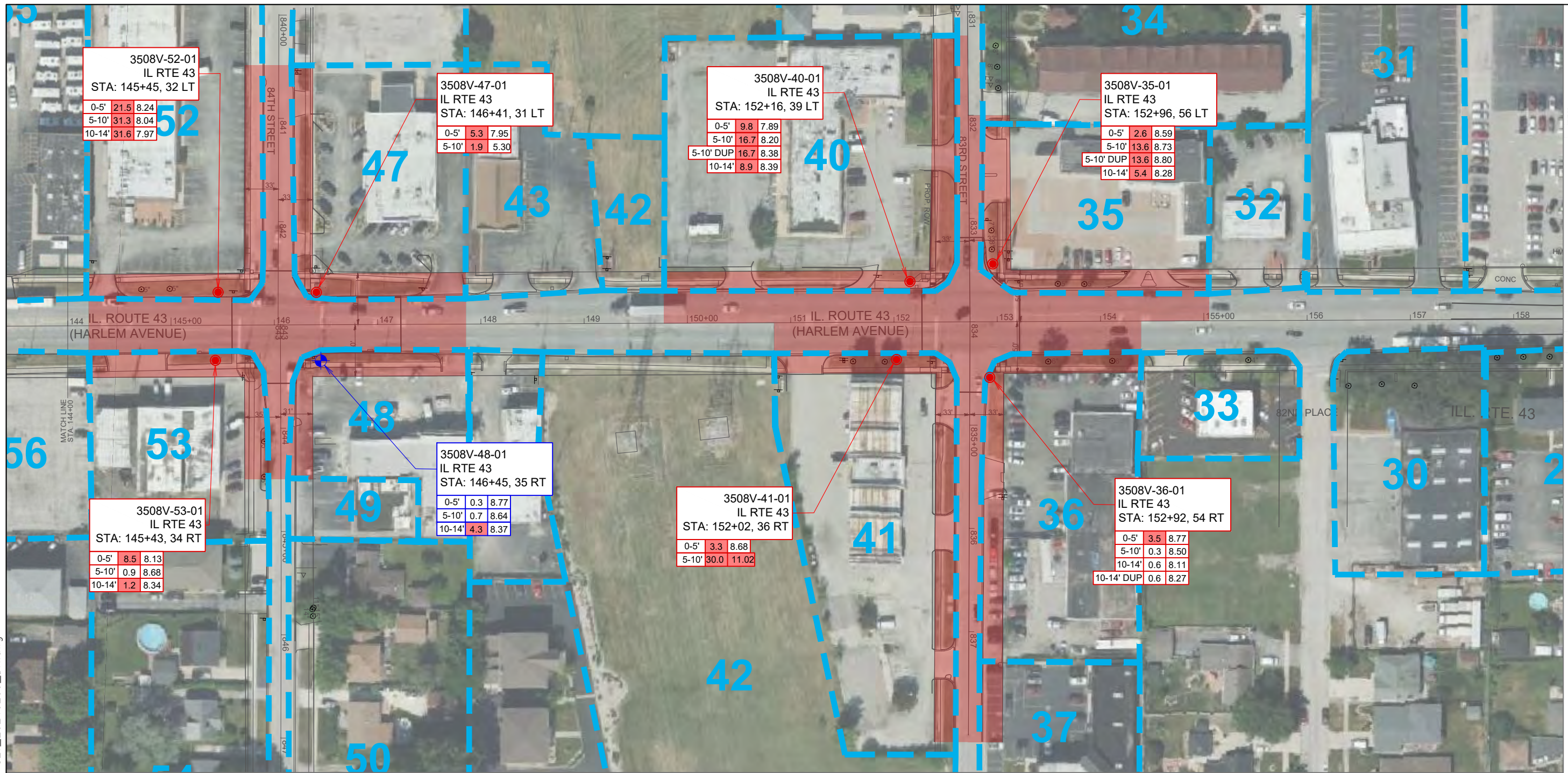
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APPROVED	
DATE	2/09/2024



WO No. 33A
 3030 WARRENVILLE RD
 LISLE, ILLINOIS
 60532
 PH (630) 507-9002

FIGURE 4-1.3 Regulated Substances Management Area	
Location: IL 43 (Harlem Avenue), Bridgeview/Burbank, IL	
Contract No: 62P50	
PESA: 3508V	Route FAP 348
IDOT Job No. D-91-117-19 BDE Sequence No. 21158	
City/County Bridgeview, Burbank/Cook County	

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Legend							
●	Soil Boring Location						
●	Monitoring Well Location						
 	PESA Site Boundary						
PID	PID Exceeds background value or pH outside acceptable range for CCDD disposal						
pH							
<table border="1" style="font-size: 8px;"><tr><th>Depth</th><th>PID</th><th>pH</th></tr><tr><td> </td><td> </td><td> </td></tr></table>	Depth	PID	pH				
Depth	PID	pH					
	669.05(a)(1)						
	669.05(a)(2)						
	669.05(a)(3)						
	669.05(a)(4)						
	669.05(a)(5)						
	669.05(a)(6)						
	669.05(b)(1)						
	669.05(b)(2)						
	669.05(c)						
 	669.05(d)						
	WORK ZONE						

Notes:

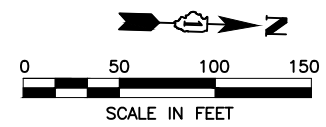
- Additional detail and information regarding regulated substances management and disposal classifications can be found in the Standard Specifications for Road and Bridge Construction (SSRBC) Section 669.05.
- This figure relies on color code depictions for soil management. Please contact the DESU or AE for assistance.

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DATE	2/09/2024

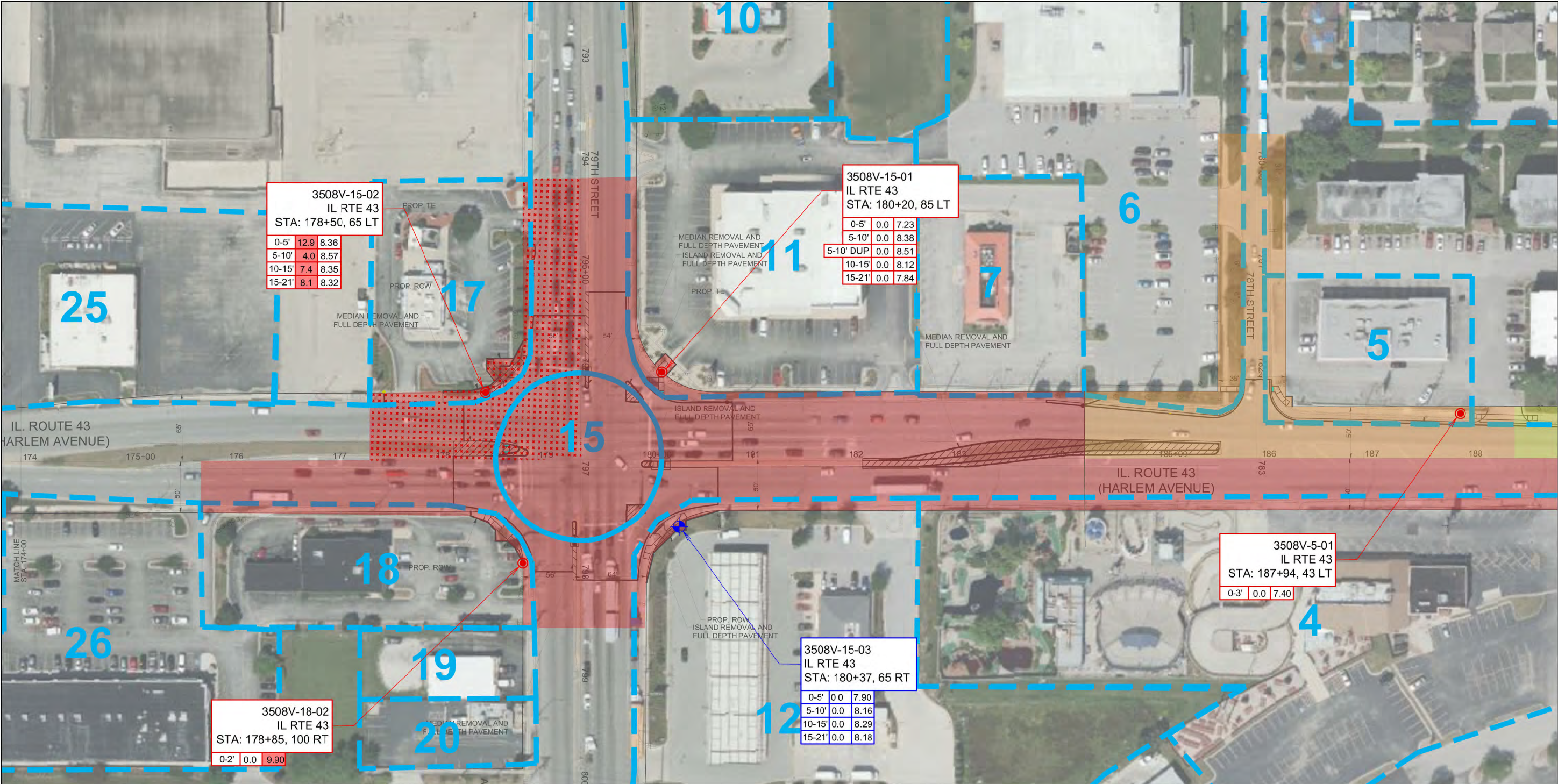


WO No. 33A
3030 WARRENVILLE RD
LISLE, ILLINOIS
60532
PH (630) 507-9002

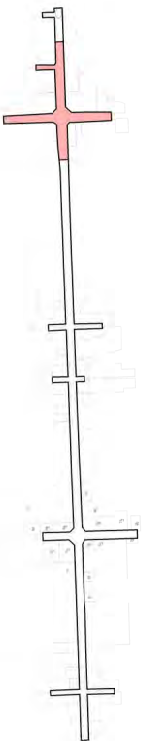
FIGURE 4-1.4 Regulated Substances Management Area	
Location: IL 43 (Harlem Avenue), Bridgeview/Burbank, IL	
Contract No: 62P50	
PESA: 3508V	Route FAP 348
IDOT Job No. D-91-117-19	BDE Sequence No. 21158
City/County Bridgeview, Burbank/Cook County	



9/16/2022 IDOT_WO#33_20240126_3.1_4.1 SET_20240209_DH.dwg



Location Legend



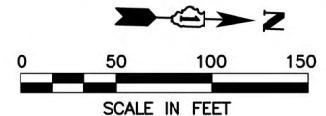
Legend

- Soil Boring Location
- Monitoring Well 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)(3)
- 669.05(a)(4)
- 669.05(a)(5)
- 669.05(a)(6)
- 669.05(b)(1)
- 669.05(b)(2)
- 669.05(c)
- 669.05(d)
- WORK ZONE

Notes:

1. Additional detail and information regarding regulated substances management and disposal classifications can be found in the Standard Specifications for Road and Bridge Construction (SSRBC) Section 669.05.
2. This figure relies on color code depictions for soil management. Please contact the DESU or AE for assistance.



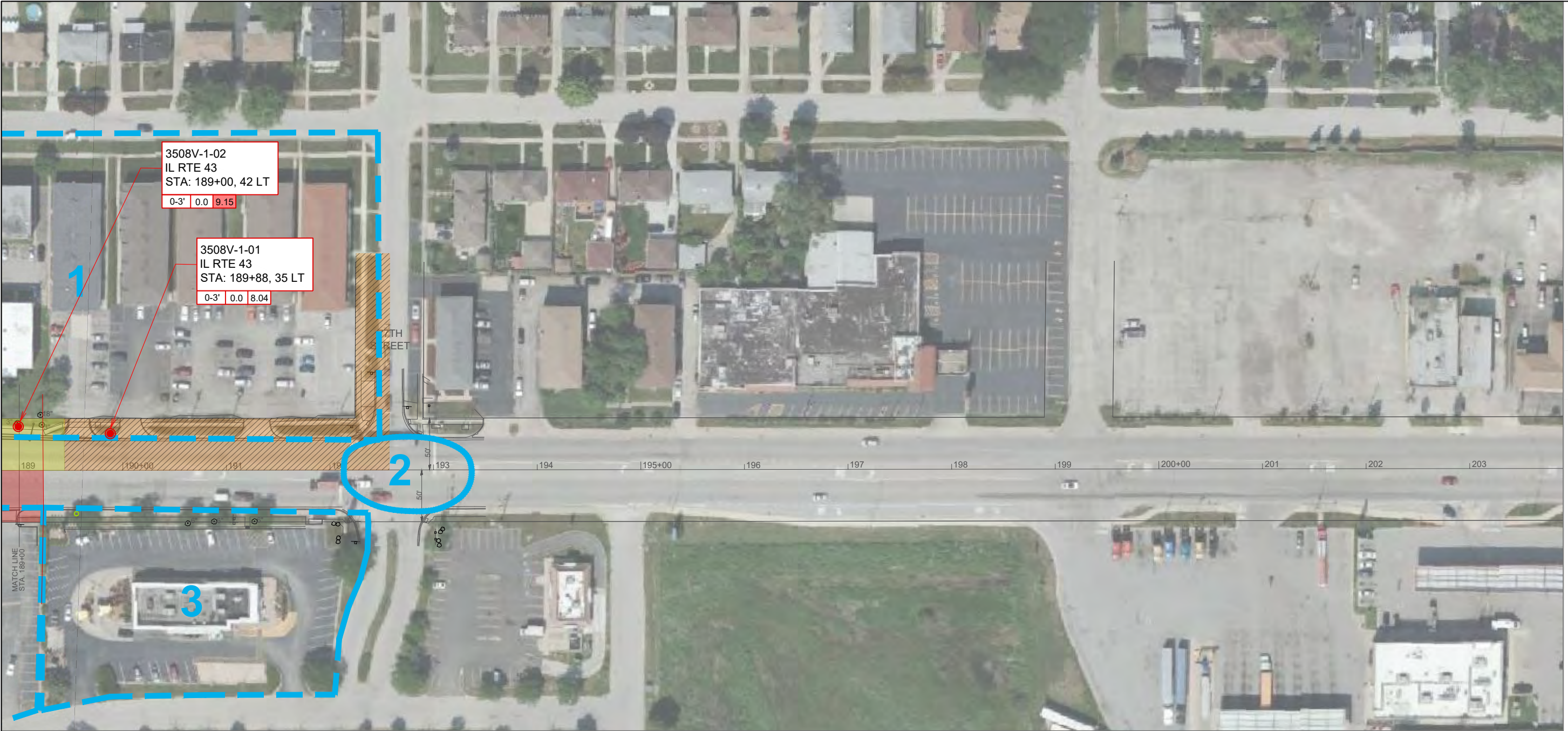
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APPROVED	
DATE	2/09/2024



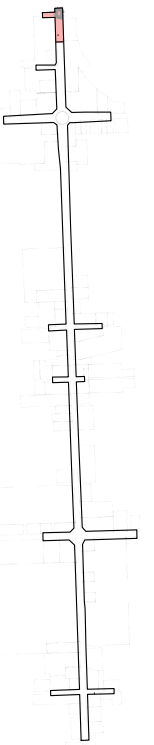
WO No. 33A
3030 WARRENVILLE RD
LISLE, ILLINOIS
60532
PH (630) 507-9002

FIGURE 4-1.5 Regulated Substances Management Area	
Location: IL 43 (Harlem Avenue), Bridgeview/Burbank, IL	
Contract No: 62P50	
PESA: 3508V	Route FAP 348
IDOT Job No. D-91-117-19	BDE Sequence No. 21158
City/County Bridgeview, Burbank/Cook County	

9/16/2022 IDOT_WO#33_20240126_3.1_4.1 SET_20240209_DH.dwg

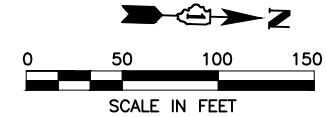


Location Legend



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) | | 669.05(b)(1) |
| | 669.05(a)(2) | | 669.05(b)(2) |
| | 669.05(a)(3) | | 669.05(c) |
| | 669.05(a)(4) | | 669.05(d) |
| | 669.05(a)(5) | x x x x | WORK ZONE |



Notes:

1. Additional detail and information regarding regulated substances management and disposal classifications can be found in the Standard Specifications for Road and Bridge Construction (SSRBC) Section 669.05.
2. This figure relies on color code depictions for soil management. Please contact the DESU or AE for assistance.

DESIGNED	AK
DRAWN	SCC
CHECKED	AK
APPROVED	
DATE	2/09/2024



WO No. 33A	FIGURE 4-1.6 Regulated Substances Management Area	
3030 WARRENVILLE RD LISLE, ILLINOIS 60532 PH (630) 507-9002	Location: IL 43 (Harlem Avenue), Bridgeview/Burbank, IL	
	Contract No: 62P50	
	PESA: 3508V	Route FAP 348
	IDOT Job No. D-91-117-19	BDE Sequence No. 21158
	City/County Bridgeview, Burbank/Cook County	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0020714.60, IDOT WO33A
Sample ID: 3508V-1-01 (0-3)
Sample No: 24-0059-006

Date Collected: 01/03/24
Time Collected: 12:45
Date Received: 01/03/24
Date Reported: 01/18/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 01/04/24				
Total Solids	80.53		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/11/24				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0020714.60, IDOT WO33A
Sample ID: 3508V-1-01 (0-3)
Sample No: 24-0059-006

Date Collected: 01/03/24
Time Collected: 12:45
Date Received: 01/03/24
Date Reported: 01/18/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/11/24				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 01/12/24				
Preparation Date: 01/08/24				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	286	90	ug/kg	
Benzo(b)fluoranthene	401	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0020714.60, IDOT WO33A
Sample ID: 3508V-1-01 (0-3)
Sample No: 24-0059-006

Date Collected: 01/03/24
Time Collected: 12:45
Date Received: 01/03/24
Date Reported: 01/18/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/12/24		Preparation Date: 01/08/24		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	613	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0020714.60, IDOT WO33A
Sample ID: 3508V-1-01 (0-3)
Sample No: 24-0059-006

Date Collected: 01/03/24
Time Collected: 12:45
Date Received: 01/03/24
Date Reported: 01/18/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 01/12/24		Preparation Date: 01/08/24		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	390	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	482	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/15/24		Preparation Date: 01/11/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.4	1.0	mg/kg	
Barium	110	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	1.0	0.5	mg/kg	
Calcium	23,100	50	mg/kg	
Chromium	22.7	0.5	mg/kg	
Cobalt	9.9	0.5	mg/kg	
Copper	29.4	0.5	mg/kg	
Iron	22,900	5.0	mg/kg	
Lead	81.9	0.5	mg/kg	
Magnesium	15,700	50	mg/kg	
Manganese	285	0.5	mg/kg	
Nickel	29.5	0.5	mg/kg	
Potassium	2,150	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,970	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	28.7	1.0	mg/kg	
Zinc	85.9	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0020714.60, IDOT WO33A
Sample ID: 3508V-1-01 (0-3)
Sample No: 24-0059-006

Date Collected: 01/03/24
Time Collected: 12:45
Date Received: 01/03/24
Date Reported: 01/18/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 01/15/24				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 01/08/24 11:00				
pH @ 25°C, 1:2	8.04		Units	
TCLP Extraction Method: 1311				
Analysis Date: 01/04/24				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 01/17/24				
Preparation Method 3010A				
Preparation Date: 01/16/24				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	3.0	0.1	mg/L	
Lead	0.011	0.005	mg/L	
Manganese	1.72	0.10	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 01/17/24				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 01/04/24				
SPLP Metals Extraction	Complete			
Arsenic	0.013	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0020714.60, IDOT WO33A
Sample ID: 3508V-1-01 (0-3)
Sample No: 24-0059-006

Date Collected: 01/03/24
Time Collected: 12:45
Date Received: 01/03/24
Date Reported: 01/18/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 01/17/24		Preparation Date: 01/16/24		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.065	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.099	0.005	mg/L	
Iron	59.8	0.1	mg/L	
Lead	0.065	0.005	mg/L	
Manganese	0.32	0.10	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 01/17/24			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.6	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.7	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103.9	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	98.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	79	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	63	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	94	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	78	35 -	105
8270C	Phenol-d5 (surr)	%R:	71	50 -	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0020714.60, IDOT WO33A
Sample ID: 3508V-5-01 (0-3)
Sample No: 24-0059-008

Date Collected: 01/03/24
Time Collected: 12:55
Date Received: 01/03/24
Date Reported: 01/18/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 01/04/24				
Total Solids	77.07		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/11/24				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0020714.60, IDOT WO33A
Sample ID: 3508V-5-01 (0-3)
Sample No: 24-0059-008

Date Collected: 01/03/24
Time Collected: 12:55
Date Received: 01/03/24
Date Reported: 01/18/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/11/24				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 01/12/24				
Preparation Date: 01/08/24				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0020714.60, IDOT WO33A
Sample ID: 3508V-5-01 (0-3)
Sample No: 24-0059-008

Date Collected: 01/03/24
Time Collected: 12:55
Date Received: 01/03/24
Date Reported: 01/18/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/12/24		Preparation Date: 01/08/24		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0020714.60, IDOT WO33A
Sample ID: 3508V-5-01 (0-3)
Sample No: 24-0059-008

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Time Collected: 12:55
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Date Reported: 01/18/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 01/12/24		Preparation Date: 01/08/24		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/15/24		Preparation Date: 01/11/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.9	1.0	mg/kg	
Barium	116	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	0.6	0.5	mg/kg	
Calcium	3,330	50	mg/kg	
Chromium	24.7	0.5	mg/kg	
Cobalt	9.7	0.5	mg/kg	
Copper	27.8	0.5	mg/kg	
Iron	24,000	5.0	mg/kg	
Lead	27.1	0.5	mg/kg	
Magnesium	4,340	50	mg/kg	
Manganese	138	0.5	mg/kg	
Nickel	27.6	0.5	mg/kg	
Potassium	2,040	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	2,580	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	35.8	1.0	mg/kg	
Zinc	63.0	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC. **Date Collected:** 01/03/24
Project ID: 81.0020714.60, IDOT WO33A **Time Collected:** 12:55
Sample ID: 3508V-5-01 (0-3) **Date Received:** 01/03/24
Sample No: 24-0059-008 **Date Reported:** 01/18/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 01/16/24				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 01/08/24 11:00				
pH @ 25°C, 1:2	7.40		Units	
TCLP Extraction Method: 1311				
Analysis Date: 01/04/24				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 01/17/24 Preparation Date: 01/16/24				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.9	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.35	0.10	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 01/17/24				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 01/04/24				
SPLP Metals Extraction	Complete			
Arsenic	0.011	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0020714.60, IDOT WO33A
Sample ID: 3508V-5-01 (0-3)
Sample No: 24-0059-008

Date Collected: 01/03/24
Time Collected: 12:55
Date Received: 01/03/24
Date Reported: 01/18/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 01/17/24		Preparation Date: 01/16/24		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.078	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.072	0.005	mg/L	
Iron	67.6	0.1	mg/L	
Lead	0.035	0.005	mg/L	
Manganese	0.31	0.10	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 01/18/24			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.9	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104.3	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	94.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	66	45	112
8270C	2-Fluorophenol (Surr)	%R:	46	41	84
8270C	d14-Terphenyl (Surr)	%R:	93	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	67	35	105
8270C	Phenol-d5 (surr)	%R:	59.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.60, IDOT WO33A
Sample ID: 3508V-93-01 (0-5)
Sample No: 23-11381-001

Date Collected: 12/27/23
Time Collected: 10:10
Date Received: 12/27/23
Date Reported: 01/16/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 12/27/23				
Total Solids	83.78		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/05/24				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.60, IDOT WO33A
Sample ID: 3508V-93-01 (0-5)
Sample No: 23-11381-001

Date Collected: 12/27/23
Time Collected: 10:10
Date Received: 12/27/23
Date Reported: 01/16/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/05/24				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 01/02/24				
Preparation Date: 12/28/23				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.60, IDOT WO33A
Sample ID: 3508V-93-01 (0-5)
Sample No: 23-11381-001

Date Collected: 12/27/23
Time Collected: 10:10
Date Received: 12/27/23
Date Reported: 01/16/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/02/24		Preparation Date: 12/28/23		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.60, IDOT WO33A
Sample ID: 3508V-93-01 (0-5)
Sample No: 23-11381-001

Date Collected: 12/27/23
Time Collected: 10:10
Date Received: 12/27/23
Date Reported: 01/16/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 01/02/24		Preparation Date: 12/28/23		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/04/24		Preparation Date: 01/02/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.4	1.0	mg/kg	
Barium	39.8	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	0.7	0.5	mg/kg	
Calcium	50,400	50	mg/kg	
Chromium	19.8	0.5	mg/kg	
Cobalt	17.9	0.5	mg/kg	
Copper	26.2	0.5	mg/kg	
Iron	20,900	5.0	mg/kg	
Lead	13.0	0.5	mg/kg	
Magnesium	25,700	50	mg/kg	
Manganese	487	0.5	mg/kg	
Nickel	37.1	0.5	mg/kg	
Potassium	2,520	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	671	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	23.0	1.0	mg/kg	
Zinc	53.0	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.60, IDOT WO33A
Sample ID: 3508V-93-01 (0-5)
Sample No: 23-11381-001

Date Collected: 12/27/23
Time Collected: 10:10
Date Received: 12/27/23
Date Reported: 01/16/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 12/29/23				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 01/03/24 8:00				
pH @ 25°C, 1:2	8.12		Units	
TCLP Extraction Method: 1311				
Analysis Date: 12/28/23				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 01/08/24				
Preparation Method 3010A				
Preparation Date: 01/04/24				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.63	0.10	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 01/10/24				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 12/28/23				
SPLP Metals Extraction	Complete			
Arsenic	0.016	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.60, IDOT WO33A
Sample ID: 3508V-93-01 (0-5)
Sample No: 23-11381-001

Date Collected: 12/27/23
Time Collected: 10:10
Date Received: 12/27/23
Date Reported: 01/16/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 01/15/24		Preparation Date: 01/11/24		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.037	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.041	0.005	mg/L	
Iron	41.0	0.1	mg/L	
Lead	0.013	0.005	mg/L	
Manganese	0.19	0.10	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 01/10/24			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.4	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	102.1	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	108.8	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	89.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	75	45	112
8270C	2-Fluorophenol (Surr)	%R:	61.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	82	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	80	35	105
8270C	Phenol-d5 (surr)	%R:	72	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.60, IDOT WO33A
Sample ID: 3508V-93-01 (5-10)
Sample No: 23-11381-002

Date Collected: 12/27/23
Time Collected: 10:25
Date Received: 12/27/23
Date Reported: 01/16/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 12/27/23				
Total Solids	82.65		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/05/24				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.60, IDOT WO33A
Sample ID: 3508V-93-01 (5-10)
Sample No: 23-11381-002

Date Collected: 12/27/23
Time Collected: 10:25
Date Received: 12/27/23
Date Reported: 01/16/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/05/24				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 01/02/24				
Preparation Date: 12/28/23				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.60, IDOT WO33A
Sample ID: 3508V-93-01 (5-10)
Sample No: 23-11381-002

Date Collected: 12/27/23
Time Collected: 10:25
Date Received: 12/27/23
Date Reported: 01/16/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/02/24		Preparation Date: 12/28/23		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.60, IDOT WO33A
Sample ID: 3508V-93-01 (5-10)
Sample No: 23-11381-002

Date Collected: 12/27/23
Time Collected: 10:25
Date Received: 12/27/23
Date Reported: 01/16/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 01/02/24		Preparation Date: 12/28/23		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/04/24		Preparation Date: 01/02/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.2	1.0	mg/kg	
Barium	39.2	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	0.7	0.5	mg/kg	
Calcium	49,200	50	mg/kg	
Chromium	20.4	0.5	mg/kg	
Cobalt	14.1	0.5	mg/kg	
Copper	26.6	0.5	mg/kg	
Iron	22,400	5.0	mg/kg	
Lead	12.0	0.5	mg/kg	
Magnesium	23,800	50	mg/kg	
Manganese	354	0.5	mg/kg	
Nickel	31.2	0.5	mg/kg	
Potassium	3,650	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	561	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	25.2	1.0	mg/kg	
Zinc	52.7	1.0	mg/kg	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	12/27/23
Project ID:	81.0220714.60, IDOT WO33A	Time Collected:	10:25
Sample ID:	3508V-93-01 (5-10)	Date Received:	12/27/23
Sample No:	23-11381-002	Date Reported:	01/16/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 12/29/23				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 01/03/24 8:00				
pH @ 25°C, 1:2	7.94		Units	
TCLP Extraction Method: 1311				
Analysis Date: 12/28/23				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 01/15/24				
Preparation Method 3010A				
Preparation Date: 01/11/24				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.53	0.10	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 01/10/24				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 12/28/23				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.60, IDOT WO33A
Sample ID: 3508V-93-01 (5-10)
Sample No: 23-11381-002

Date Collected: 12/27/23
Time Collected: 10:25
Date Received: 12/27/23
Date Reported: 01/16/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 01/15/24		Preparation Date: 01/11/24		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.024	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.023	0.005	mg/L	
Iron	23.6	0.1	mg/L	
Lead	0.008	0.005	mg/L	
Manganese	0.10	0.10	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 01/10/24			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	92.6	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	103	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	96.7	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	88	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	75	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	59	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	81	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	76	35 -	105
8270C	Phenol-d5 (surr)	%R:	69	50 -	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.60, IDOT WO33A
Sample ID: 3508V-93-01 (10-14)
Sample No: 23-11381-003

Date Collected: 12/27/23
Time Collected: 10:40
Date Received: 12/27/23
Date Reported: 01/16/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 12/27/23				
Total Solids	81.87		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/08/24				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.60, IDOT WO33A
Sample ID: 3508V-93-01 (10-14)
Sample No: 23-11381-003

Date Collected: 12/27/23
Time Collected: 10:40
Date Received: 12/27/23
Date Reported: 01/16/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/08/24				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 01/02/24				
Preparation Date: 12/28/23				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.60, IDOT WO33A
Sample ID: 3508V-93-01 (10-14)
Sample No: 23-11381-003

Date Collected: 12/27/23
Time Collected: 10:40
Date Received: 12/27/23
Date Reported: 01/16/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/02/24		Preparation Date: 12/28/23		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.60, IDOT WO33A
Sample ID: 3508V-93-01 (10-14)
Sample No: 23-11381-003

Date Collected: 12/27/23
Time Collected: 10:40
Date Received: 12/27/23
Date Reported: 01/16/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 01/02/24		Preparation Date: 12/28/23		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/04/24		Preparation Date: 01/02/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.3	1.0	mg/kg	
Barium	52.4	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	0.7	0.5	mg/kg	
Calcium	49,700	50	mg/kg	
Chromium	17.9	0.5	mg/kg	
Cobalt	9.9	0.5	mg/kg	
Copper	25.4	0.5	mg/kg	
Iron	22,800	5.0	mg/kg	
Lead	12.9	0.5	mg/kg	
Magnesium	25,900	50	mg/kg	
Manganese	380	0.5	mg/kg	
Nickel	28.3	0.5	mg/kg	
Potassium	2,450	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	196	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	22.1	1.0	mg/kg	
Zinc	48.8	1.0	mg/kg	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	12/27/23
Project ID:	81.0220714.60, IDOT WO33A	Time Collected:	10:40
Sample ID:	3508V-93-01 (10-14)	Date Received:	12/27/23
Sample No:	23-11381-003	Date Reported:	01/16/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 12/29/23				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 01/03/24 8:00				
pH @ 25°C, 1:2	7.86		Units	
TCLP Extraction Method: 1311				
Analysis Date: 12/28/23				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 01/08/24 Preparation Date: 01/04/24				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.85	0.10	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 01/10/24				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 12/28/23				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.60, IDOT WO33A
Sample ID: 3508V-93-01 (10-14)
Sample No: 23-11381-003

Date Collected: 12/27/23
Time Collected: 10:40
Date Received: 12/27/23
Date Reported: 01/16/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 01/15/24		Preparation Date: 01/11/24		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	0.7	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.10	0.10	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 01/10/24			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	84.3	*	86 - 117
5035A/8260B	d8-Toluene (Surr)	%R:	99.8		90 - 110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	97.5		77 - 120
8270C	2,4,6-Tribromophenol (Surr)	%R:	89		59 - 131
8270C	2-Fluorobiphenyl (Surr)	%R:	81		45 - 112
8270C	2-Fluorophenol (Surr)	%R:	61		41 - 84
8270C	d14-Terphenyl (Surr)	%R:	86		56 - 120
8270C	d5-Nitrobenzene (Surr)	%R:	80		35 - 105
8270C	Phenol-d5 (surr)	%R:	72.5		50 - 100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.60, IDOT WO33A
Sample ID: 3508V-93-02 (0-2)
Sample No: 23-11381-004

Date Collected: 12/27/23
Time Collected: 10:45
Date Received: 12/27/23
Date Reported: 01/16/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 12/27/23				
Total Solids	81.00		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/05/24				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.60, IDOT WO33A
Sample ID: 3508V-93-02 (0-2)
Sample No: 23-11381-004

Date Collected: 12/27/23
Time Collected: 10:45
Date Received: 12/27/23
Date Reported: 01/16/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/05/24				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 01/02/24				
Preparation Date: 12/28/23				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	506	330	ug/kg	
Benzo(a)pyrene	605	90	ug/kg	
Benzo(b)fluoranthene	865	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	489	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	640	330	ug/kg	
Dibenzo(a,h)anthracene	124	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.60, IDOT WO33A
Sample ID: 3508V-93-02 (0-2)
Sample No: 23-11381-004

Date Collected: 12/27/23
Time Collected: 10:45
Date Received: 12/27/23
Date Reported: 01/16/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/02/24		Preparation Date: 12/28/23		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	1,300	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	496	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.60, IDOT WO33A
Sample ID: 3508V-93-02 (0-2)
Sample No: 23-11381-004

Date Collected: 12/27/23
Time Collected: 10:45
Date Received: 12/27/23
Date Reported: 01/16/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 01/02/24		Preparation Date: 12/28/23		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	460	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	805	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/05/24		Preparation Date: 01/03/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.0	1.0	mg/kg	
Barium	59.6	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	0.6	0.5	mg/kg	
Calcium	58,600	50	mg/kg	
Chromium	16.4	0.5	mg/kg	
Cobalt	8.4	0.5	mg/kg	
Copper	27.7	0.5	mg/kg	
Iron	17,600	5.0	mg/kg	
Lead	26.8	0.5	mg/kg	
Magnesium	25,600	50	mg/kg	
Manganese	297	0.5	mg/kg	
Nickel	23.0	0.5	mg/kg	
Potassium	1,790	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	636	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	21.8	1.0	mg/kg	
Zinc	54.1	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.60, IDOT WO33A
Sample ID: 3508V-93-02 (0-2)
Sample No: 23-11381-004

Date Collected: 12/27/23
Time Collected: 10:45
Date Received: 12/27/23
Date Reported: 01/16/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Analysis Date: 12/29/23	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 01/03/24 8:00	Method: 9045D			
pH @ 25°C, 1:2	8.29		Units	
TCLP Extraction Analysis Date: 12/28/23	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 01/15/24	Method: 6010C			
	Preparation Method 3010A Preparation Date: 01/11/24			
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.10	0.10	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 01/10/24	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Analysis Date: 12/28/23	Method: 1312			
SPLP Metals Extraction	Complete			
Arsenic	0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.60, IDOT WO33A
Sample ID: 3508V-93-02 (0-2)
Sample No: 23-11381-004

Date Collected: 12/27/23
Time Collected: 10:45
Date Received: 12/27/23
Date Reported: 01/16/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 01/15/24		Preparation Date: 01/11/24		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.040	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.044	0.005	mg/L	
Iron	39.4	0.1	mg/L	
Lead	0.034	0.005	mg/L	
Manganese	0.23	0.10	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 01/10/24			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	92.4	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	103.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	102.3	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	88	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	77	45	112
8270C	2-Fluorophenol (Surr)	%R:	57.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	81	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	80	35	105
8270C	Phenol-d5 (surr)	%R:	71.5	50	100



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: IDOT 199-014 WO 33A IL 43 Harlem - PSI Office Phone Number, if available: 847-705-4122

Physical Site Location (address, including number and street):

IL 43 from 78th St. to 91st St, see attached documentation

City: Bridgeview State: IL Zip Code: 60455

County: Cook Township: _____

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.73911 Longitude: - 87.79935

(Decimal Degrees)

(-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

Google Earth - Approximate center of multiple addresses

IEPA Site Number(s), if assigned: BOL: NA BOW: NA BOA: NA

Approximate Start Date (mm/dd/yyyy): _____ Approximate End Date (mm/dd/yyyy): _____

Estimated Volume of debris (cu. Yd.): _____

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Dept of Transportation, District 1

Street Address: 201 W. Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

Site Operator

Name: Illinois Dept of Transportation, District 1

Street Address: 201 W. Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

Refer to Figure 4-1.1 through 4-1.6 in the Final PSI Report and attachment for a list of borings with stationing.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201 (g), 1100.205(a), 1100.610]:

Refer to Tables 4-2 and 4-3 in the Final PSI Report for results summary and First Environmental Laboratories, Inc. report number #23-11381 and #24-0059. Site specific table of results is attached to this form.

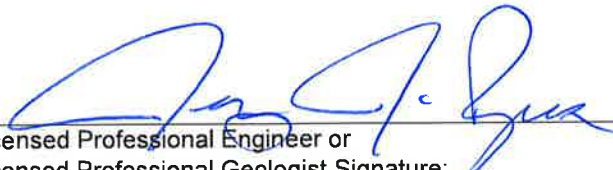
IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Jeremy J. Reynolds, P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.


Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Huff & Huff, Inc. / GZA GeoEnvironmental, Inc.
Street Address: 915 Harger Road, Suite 330
City: Oak Brook State: IL Zip Code: 60523
Phone: 630-684-9100

Jeremy J. Reynolds, P.G.
Printed Name:


Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Feb 10, 2024
Date:



P.E or L.P.G. Seal:

LPC-663
Uncontaminated Soil Certification Form
Attachment (Unrestricted)

Below is a list referenced in Section I (Source Location Information) of the attached LPC-663 Uncontaminated Soil Certification Form, which requests information about Physical Site Locations (addresses, including number and street):

ISGS Site No.	Name
3508V-1	Residences
3508V-4	Haunted Trails
3508V-5	Commercial Buildings
3508V-6	Aldi
3508V-7	Pizza Hut
3508V-11	Walgreens
3508V-12	Speedway
3508V-15	IDOT ROW
3508V-17	White Castle
3508V-18	Huntington Bank
3508V-35	Commercial Buildings
3508V-36	Unlimited Motors
3508V-40	Commercial Buildings
3508V-41	Mobil Gas Station
3508V-47	Polish & Slavic Federal Credit Union
3508V-48	Commercial Building
3508V-52	84 th Street Plaza
3508V-53	Mixed-Use Buildings
3508V-68	Lindy's Chill & Gertie's Ice Cream
3508V-69	Fifth Third Bank
3508V-70	CVS Pharmacy
3508V-71	O'Reilly Auto Parts
3508V-74	Bridgeview Plaza

ISGS Site No.	Name
3508V-75	Shell Gas Station
3508V-76	Commercial Buildings
3508V-77	Southfield Plaza
3508V-79	Rosebud Mobile Homes
3508V-83	Midland Federal Saving and Loan
3508V-86	American Sale
3508V-89	KFC
3508V-92	Salvation Army
3508V-93	Popeye's

LPC-663
Uncontaminated Soil Certification Form
Attachment (Unrestricted)

Below is a list referenced in Section III A (Basis for Certification and Attachments) of the attached LPC-663 Uncontaminated Soil Certification Form, which requests a description of the soil sample points and how they were determined to be sufficient in number and appropriately located:

ISGS Boring No.	Approximate Stationing
2199V2-86-01	STA: Harlem Ave 106+70, 34 Right

FIGURE 4-1 (Page 1 of 1)
 REGULATED SUBSTANCES MANAGEMENT AREA - EXCEEDANCE TABLE
 FAP 348 (IL 43) From 78th St. to 91st St.,
 Bridgeview/Burbank, Cook County, Illinois
 BDE Sequence No.: 21158
 PTB: 199-014/HH-2, Work Order No.: 33A

Boring ID	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3508V-86-01	3508V-86-01	3508V-86-01	
						(0-5)	(5-10)	(10-14)	
						12/27/2023	12/27/2023	12/27/2023	
Sample Depth, ft	Sample Date	Excavation Area(s) [ISGS Site No.(s)]	Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	3508V-86		
Parameter									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.19	7.79	7.99	
PID Readings (ppm)						0.1	0.1	0.3	
VOCs, mg/kg									
Benzene	0.03	2,300	2.2	12	0.8	<0.005	<0.005	<0.005	
SVOCs, mg/kg									
Benzo(a)anthracene	0.9 / 10.9* / 1.8	170	---	0.9	---	<0.33	<0.33	<0.33	
Benzo(a)pyrene	0.09 / 11.4* / 2.1	17	---	0.09	---	<0.09	<0.09	<0.09	
Benzo(b)fluoranthene	0.9 / 13.1* / 2.1	170	---	0.9	---	<0.33	<0.33	<0.33	
Benzo(k)fluoranthene	9	1,700	---	9	---	<0.33	<0.33	<0.33	
Carbazole	0.6	6,200	---	32	---	<0.33	<0.33	<0.33	
Dibenz(a,h)anthracene	0.09 / 1.03* / 0.42	17	---	0.09	---	<0.09	<0.09	<0.09	
Indeno(1,2,3-cd)pyrene	0.9 / 5.77* / 1.6	170	---	0.9	---	<0.33	<0.33	<0.33	
Naphthalene	1.8	4100	1.8	1,600	170	<0.33	<0.33	<0.33	
Total Metals, mg/kg									
Arsenic	11.3 / 13	61	25,000	---	750	11	7.1	9.9	
Beryllium	22	410	44,000	160	1,300	0.7	0.5	<0.5	
Chromium	21	4100	690	230	270	21.1	19.6	11	
Cobalt	20	12000	---	4,700	---	15	11.4	8.3	
Iron	15,000 / 15,900	---	---	---	---	25900	22200	20800	
Lead	107	700	---	400	---	16.9	12.5	17.1	
Manganese	630 / 636	4100	8,700	1,600	---	562	371	362	
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	
Nickel	100	4100	440,000	1,600	13,000	38.4	33.5	23.8	
TCLP Metals, mg/L			Class I Groundwater ^{d/}						
Arsenic			0.05			<0.010	<0.010	<0.010	
Beryllium			0.004			<0.004	<0.004	<0.004	
Chromium			0.1			<0.005	<0.005	<0.005	
Cobalt			1			<0.1	<0.1	<0.1	
Iron			5			<0.1	<0.1	<0.1	
Lead			0.0075			<0.005	<0.005	<0.005	
Manganese			0.15			0.96	0.43	1.84	
Mercury			0.002			<0.0005	<0.0005	<0.0005	
Nickel			0.1			<0.1	<0.1	<0.1	
SPLP Metals, mg/L			Class I Groundwater ^{d/}						
Arsenic			0.05			<0.010	<0.010	<0.010	
Beryllium			0.004			<0.004	<0.004	<0.004	
Chromium			0.1			0.009	<0.005	<0.005	
Cobalt			1			<0.1	<0.1	<0.1	
Iron			5			7.6	3.4	0.7	
Lead			0.0075			<0.005	<0.005	<0.005	
Manganese			0.15			<0.10	<0.10	<0.10	
Mercury			0.002			<0.0005	<0.0005	<0.0005	
Nickel			0.1			<0.1	<0.1	<0.1	

--- Refers to not applicable or value not available

^{a/} Soil reference concentrations from MAC table. Background values for MSA counties are included as applicable.

Inorganic Soil Reference Concentrations (xx.xx/xx.xx) Include the Most Stringent values from MAC Table / and the MSA County Value From MAC Table as Applicable.

^{b/} Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

^{c/} Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

^{d/} Soil Remediation Objective for the Groundwater Component of the Groundwater Ingestion Route, Class I Groundwater

* Soil Reference Concentration based on IEPA Corrected City of Chicago Polynuclear Aromatic Hydrocarbon Background Concentrations Memorandum, Dated November 2022.

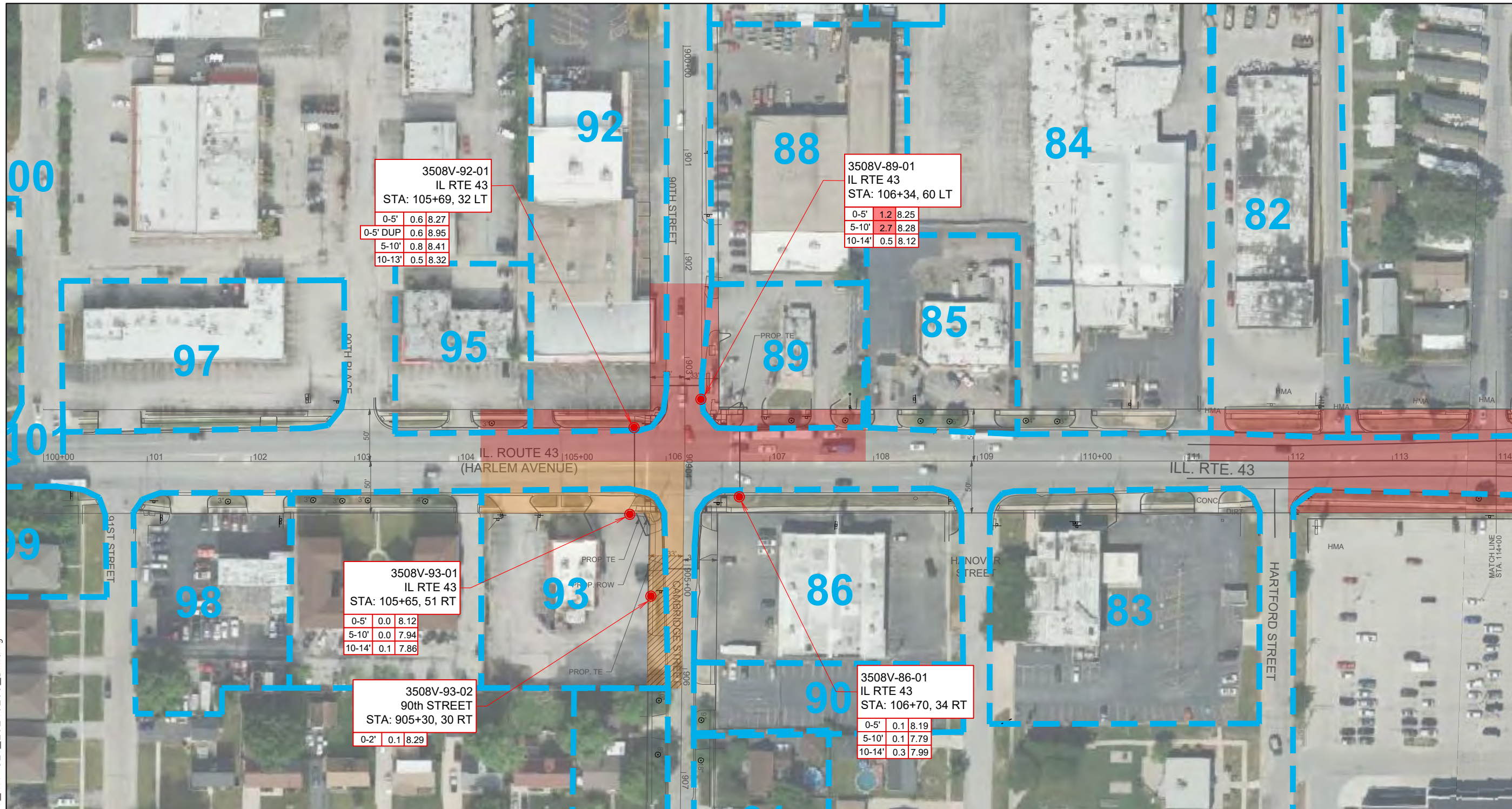
** The construction worker caution for mercury is based on elemental mercury, and mercury detected in this location is considered to be attributed to inorganic mercury salt compounds (association with coal, specifically).

When comparing results to the Soil Remediation Objectives, IDOT compares to the most stringent of the ingestion or inhalation exposure route value.

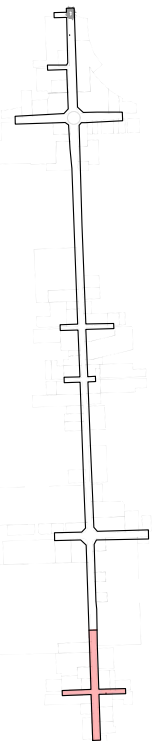
Shaded values indicate concentration exceeds reference concentration

Bold indicates concentration detected

9/16/2022 IDOT_WO#33_20240126_3.1_4.1 SET_20240209_DH.dwg



Location Legend



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)
- 669.05(a)(2)

- 669.05(a)(3)
- 669.05(a)(4)
- 669.05(a)(5)
- 669.05(a)(6)
- 669.05(b)(1)
- 669.05(b)(2)
- 669.05(c)
- 669.05(d)
- x x x x WORK ZONE

Notes:

1. Additional detail and information regarding regulated substances management and disposal classifications can be found in the Standard Specifications for Road and Bridge Construction (SSRBC) Section 669.05.
2. This figure relies on color code depictions for soil management. Please contact the DESU or AE for assistance.

DESIGNED AK
 DRAWN SCC
 CHECKED AK
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 DATE 2/09/2024



WO No. 33A
 3030 WARRENVILLE RD
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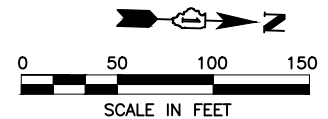
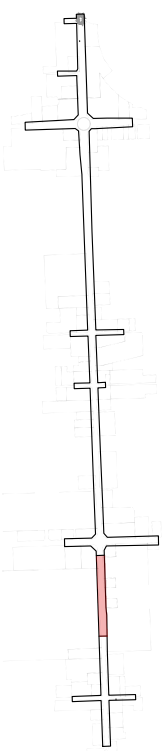


FIGURE 4-1.1
 Regulated Substances Management Area
 Location: IL 43 (Harlem Avenue), Bridgeview/Burbank, IL
 Contract No: 62P50
 PESA: 3508V | Route FAP 348
 IDOT Job No. D-91-117-19 | BDE Sequence No. 21158
 City/County Bridgeview, Burbank/Cook County

9/16/2022 IDOT_WO#33_20240126_3.1_4.1 SET_20240209_DH.dwg



Location Legend



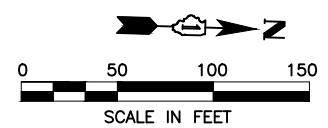
Legend

- 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)
- 669.05(a)(2)

- 669.05(a)(3)
- 669.05(a)(4)
- 669.05(a)(5)
- 669.05(a)(6)
- 669.05(b)(1)
- 669.05(b)(2)
- 669.05(c)
- 669.05(d)
- WORK ZONE

Notes:

1. Additional detail and information regarding regulated substances management and disposal classifications can be found in the Standard Specifications for Road and Bridge Construction (SSRBC) Section 669.05.
2. This figure relies on color code depictions for soil management. Please contact the DESU or AE for assistance.



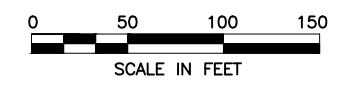
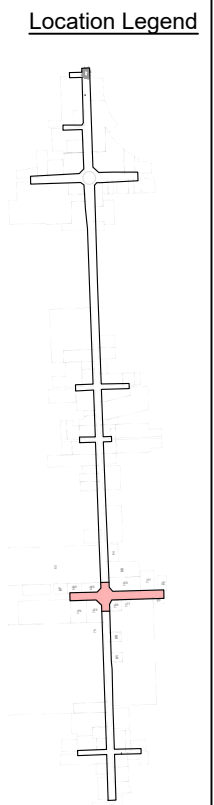
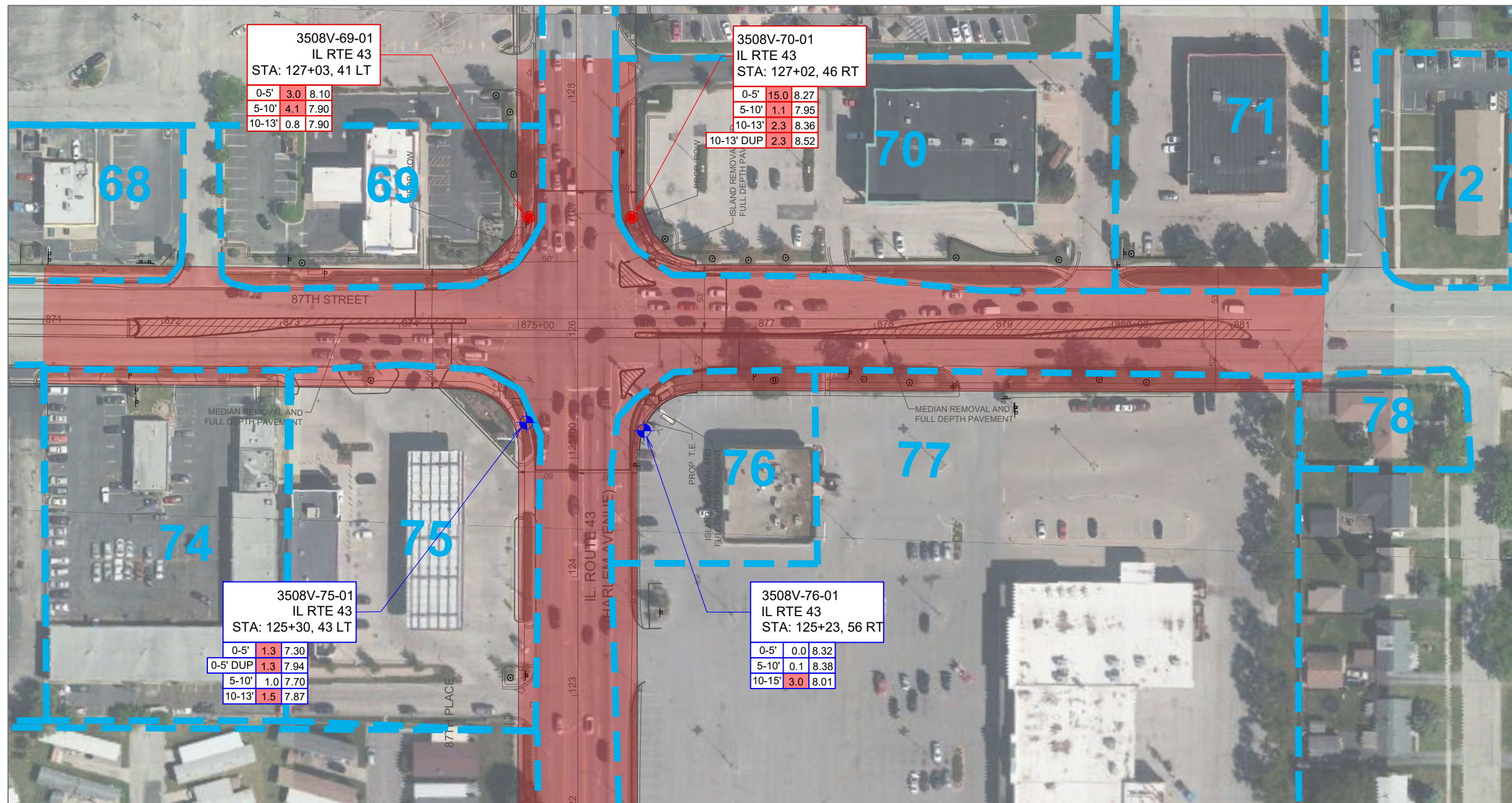
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CHECKED	AK
APPROVED	
DATE	2/09/2024



WO No. 33A
 3030 WARRENVILLE RD
 LISLE, ILLINOIS
 60532
 PH (630) 507-9002

FIGURE 4-1.2 Regulated Substances Management Area	
Location: IL 43 (Harlem Avenue), Bridgeview/Burbank, IL	
Contract No: 62P50	
PESA: 3508V	Route FAP 348
IDOT Job No. D-91-117-19	BDE Sequence No. 21158
City/County Bridgeview, Burbank/Cook County	

9/16/2022 IDOT_WO#33_20240126_3.1_4.1 SET_20240209_DH.dwg



Legend

- Soil Boring Location
- Monitoring Well 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)
- 669.05(a)(2)
- 669.05(a)(3)
- 669.05(a)(4)
- 669.05(a)(5)
- 669.05(a)(6)
- 669.05(b)(1)
- 669.05(b)(2)
- 669.05(c)
- 669.05(d)
- WORK ZONE

Notes:

1. Additional detail and information regarding regulated substances management and disposal classifications can be found in the Standard Specifications for Road and Bridge Construction (SSRBC) Section 669.05.
2. This figure relies on color code depictions for soil management. Please contact the DESU or AE for assistance.

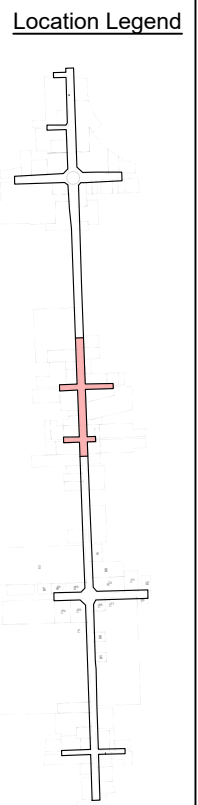
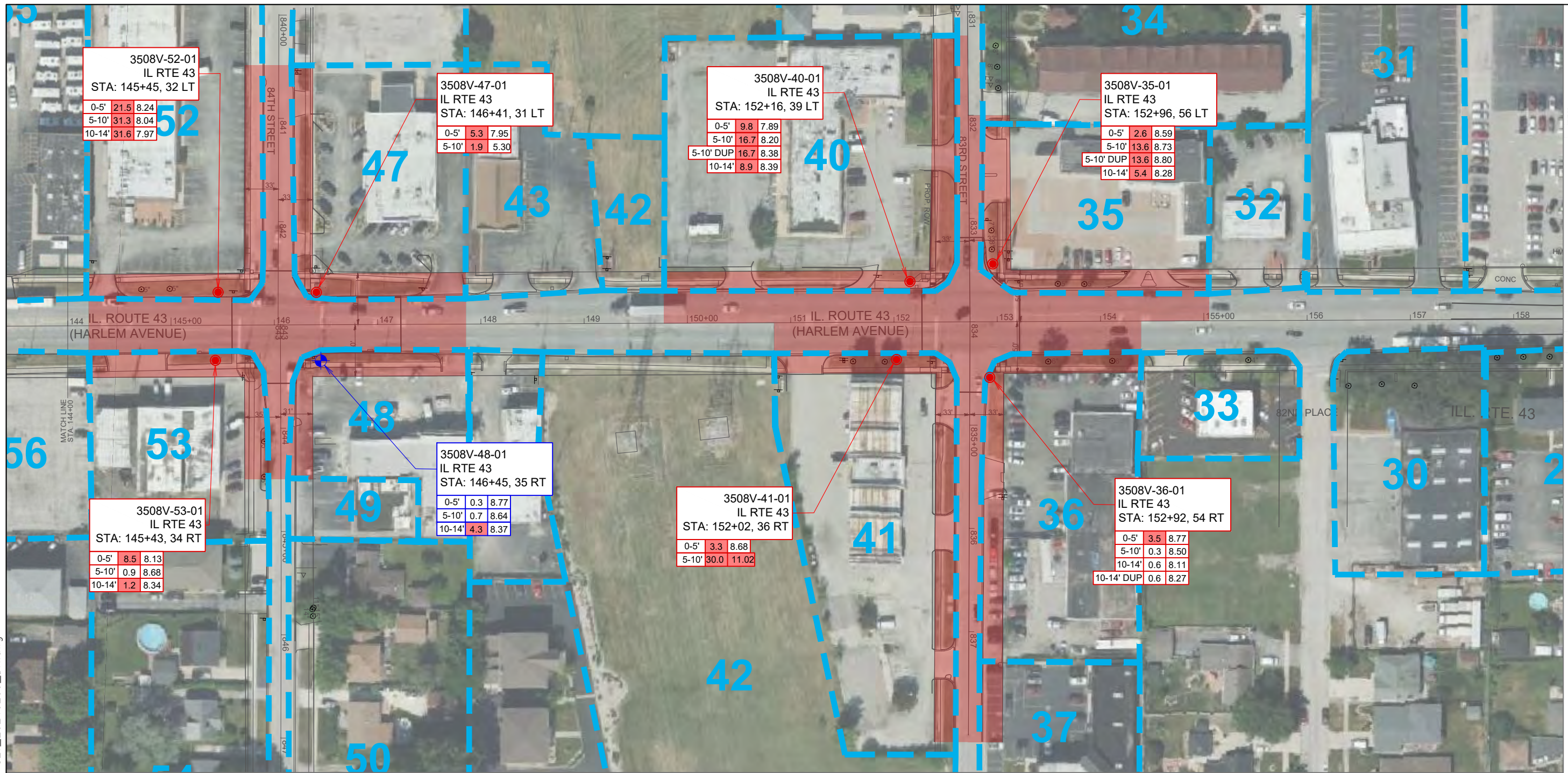
DESIGNED	AK
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CHECKED	AK
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DATE	2/09/2024



WO No. 33A
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 60532
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FIGURE 4-1.3 Regulated Substances Management Area	
Location: IL 43 (Harlem Avenue), Bridgeview/Burbank, IL	
Contract No: 62P50	
PESA:	3508V Route FAP 348
IDOT Job No. D-91-117-19	BDE Sequence No. 21158
City/County Bridgeview, Burbank/Cook County	

9/16/2022 IDOT_WO#33_20240126_3.1_4.1 SET_20240209_DH.dwg



Legend							
●	Soil Boring Location						
⊕	Monitoring Well Location						
 	PESA Site Boundary						
PID	PID Exceeds background value or pH outside acceptable range for CCDD disposal						
pH							
<table border="1" style="font-size: 8px;"><tr><th>Depth</th><th>PID</th><th>pH</th></tr><tr><td> </td><td> </td><td> </td></tr></table>	Depth	PID	pH				
Depth	PID	pH					
	669.05(a)(1)						
	669.05(a)(2)						
	669.05(a)(3)						
	669.05(a)(4)						
	669.05(a)(5)						
	669.05(a)(6)						
	669.05(b)(1)						
	669.05(b)(2)						
	669.05(c)						
	669.05(d)						
	WORK ZONE						

Notes:

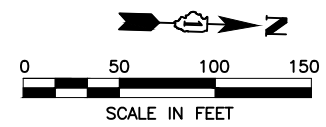
- Additional detail and information regarding regulated substances management and disposal classifications can be found in the Standard Specifications for Road and Bridge Construction (SSRBC) Section 669.05.
- This figure relies on color code depictions for soil management. Please contact the DESU or AE for assistance.

DESIGNED	AK
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DATE	2/09/2024

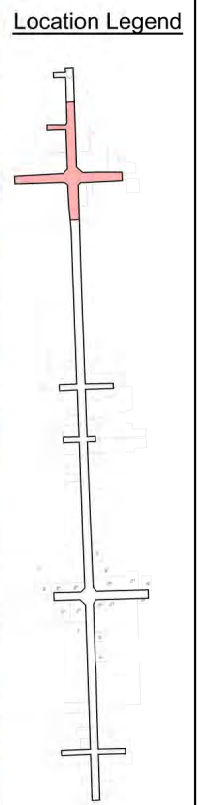
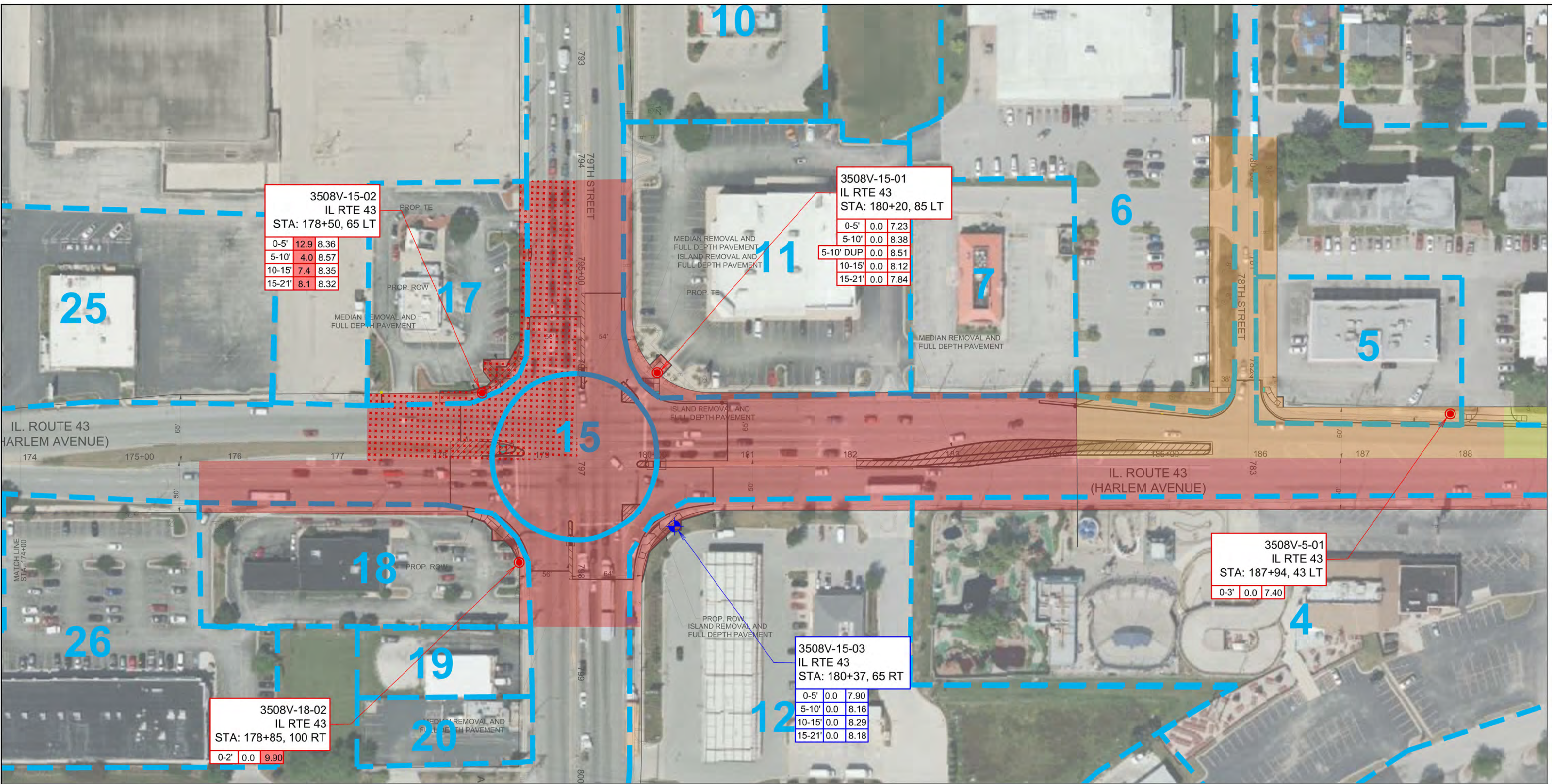


WO No. 33A
3030 WARRENVILLE RD
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60532
PH (630) 507-9002

FIGURE 4-1.4 Regulated Substances Management Area	
Location: IL 43 (Harlem Avenue), Bridgeview/Burbank, IL	
Contract No: 62P50	
PESA: 3508V	Route FAP 348
IDOT Job No. D-91-117-19	BDE Sequence No. 21158
City/County Bridgeview, Burbank/Cook County	



9/16/2022 IDOT_WO#33_20240126_3.1_4.1_SET_20240209_DH.dwg



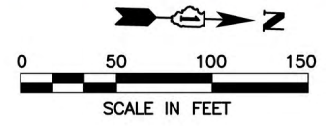
Legend

- Soil Boring Location
- Monitoring Well 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)(3)
- 669.05(a)(4)
- 669.05(a)(5)
- 669.05(a)(6)
- 669.05(b)(1)
- 669.05(b)(2)
- 669.05(c)
- 669.05(d)
- WORK ZONE

Notes:

1. Additional detail and information regarding regulated substances management and disposal classifications can be found in the Standard Specifications for Road and Bridge Construction (SSRBC) Section 669.05.
2. This figure relies on color code depictions for soil management. Please contact the DESU or AE for assistance.

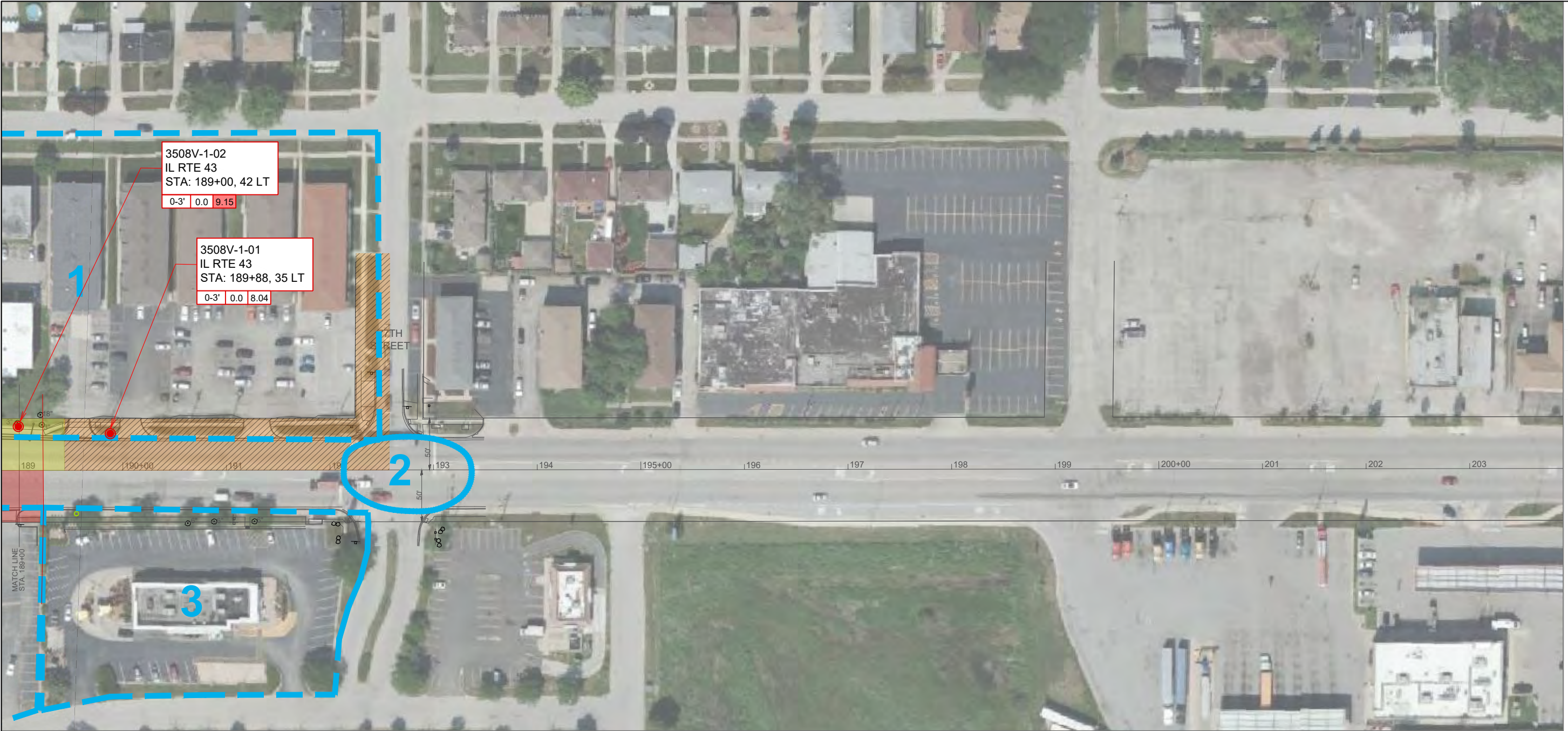


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CHECKED	AK
APPROVED	
DATE	2/09/2024

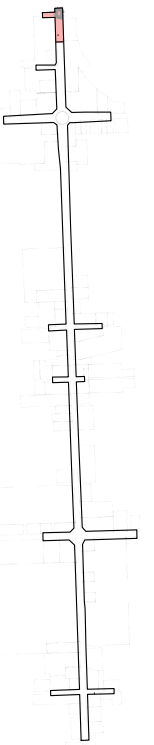


WO No. 33A	FIGURE 4-1.5 Regulated Substances Management Area
3030 WARRENVILLE RD LISLE, ILLINOIS 60532 PH (630) 507-9002	Location: IL 43 (Harlem Avenue), Bridgeview/Burbank, IL
	Contract No: 62P50
	PESA: 3508V Route FAP 348
	IDOT Job No. D-91-117-19 BDE Sequence No. 21158
	City/County Bridgeview, Burbank/Cook County

9/16/2022 IDOT_WO#33_20240126_3.1_4.1 SET_20240209_DH.dwg

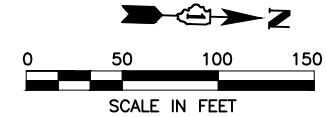


Location Legend



Legend

	Soil Boring Location																		
	PESA Site Boundary																		
PID pH	PID Exceeds background value or pH outside acceptable range for CCDD disposal																		
<table border="1"> <tr> <th>Depth</th> <th>PID</th> <th>pH</th> </tr> <tr> <td>669.05(a)(1)</td> <td>669.05(a)(1)</td> <td>669.05(b)(1)</td> </tr> <tr> <td>669.05(a)(2)</td> <td>669.05(a)(2)</td> <td>669.05(b)(2)</td> </tr> <tr> <td>669.05(a)(3)</td> <td>669.05(a)(3)</td> <td>669.05(c)</td> </tr> <tr> <td>669.05(a)(4)</td> <td>669.05(a)(4)</td> <td>669.05(d)</td> </tr> <tr> <td>669.05(a)(5)</td> <td>669.05(a)(5)</td> <td>WORK ZONE</td> </tr> </table>	Depth	PID	pH	669.05(a)(1)	669.05(a)(1)	669.05(b)(1)	669.05(a)(2)	669.05(a)(2)	669.05(b)(2)	669.05(a)(3)	669.05(a)(3)	669.05(c)	669.05(a)(4)	669.05(a)(4)	669.05(d)	669.05(a)(5)	669.05(a)(5)	WORK ZONE	
Depth	PID	pH																	
669.05(a)(1)	669.05(a)(1)	669.05(b)(1)																	
669.05(a)(2)	669.05(a)(2)	669.05(b)(2)																	
669.05(a)(3)	669.05(a)(3)	669.05(c)																	
669.05(a)(4)	669.05(a)(4)	669.05(d)																	
669.05(a)(5)	669.05(a)(5)	WORK ZONE																	



Notes:

1. Additional detail and information regarding regulated substances management and disposal classifications can be found in the Standard Specifications for Road and Bridge Construction (SSRBC) Section 669.05.
2. This figure relies on color code depictions for soil management. Please contact the DESU or AE for assistance.

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DATE	2/09/2024



WO No. 33A	FIGURE 4-1.6 Regulated Substances Management Area	
3030 WARRENVILLE RD LISLE, ILLINOIS 60532 PH (630) 507-9002	Location: IL 43 (Harlem Avenue), Bridgeview/Burbank, IL	
	Contract No: 62P50	
	PESA: 3508V	Route FAP 348
	IDOT Job No. D-91-117-19	BDE Sequence No. 21158
	City/County Bridgeview, Burbank/Cook County	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.60, IDOT WO33A
Sample ID: 3508V-86-01 (0-5)
Sample No: 23-11381-005

Date Collected: 12/27/23
Time Collected: 11:15
Date Received: 12/27/23
Date Reported: 01/16/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 12/27/23				
Total Solids	83.16		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/05/24				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.60, IDOT WO33A
Sample ID: 3508V-86-01 (0-5)
Sample No: 23-11381-005

Date Collected: 12/27/23
Time Collected: 11:15
Date Received: 12/27/23
Date Reported: 01/16/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/05/24				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 01/02/24				
Preparation Date: 12/28/23				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.60, IDOT WO33A
Sample ID: 3508V-86-01 (0-5)
Sample No: 23-11381-005

Date Collected: 12/27/23
Time Collected: 11:15
Date Received: 12/27/23
Date Reported: 01/16/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/02/24		Preparation Date: 12/28/23		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.60, IDOT WO33A
Sample ID: 3508V-86-01 (0-5)
Sample No: 23-11381-005

Date Collected: 12/27/23
Time Collected: 11:15
Date Received: 12/27/23
Date Reported: 01/16/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 01/02/24		Preparation Date: 12/28/23		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/05/24		Preparation Date: 01/03/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	11.0	1.0	mg/kg	
Barium	56.7	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	0.5	0.5	mg/kg	
Calcium	37,500	50	mg/kg	
Chromium	21.1	0.5	mg/kg	
Cobalt	15.0	0.5	mg/kg	
Copper	35.4	0.5	mg/kg	
Iron	25,900	5.0	mg/kg	
Lead	16.9	0.5	mg/kg	
Magnesium	24,900	50	mg/kg	
Manganese	562	0.5	mg/kg	
Nickel	38.4	0.5	mg/kg	
Potassium	2,050	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	895	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	27.6	1.0	mg/kg	
Zinc	52.6	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC. **Date Collected:** 12/27/23
Project ID: 81.0220714.60, IDOT WO33A **Time Collected:** 11:15
Sample ID: 3508V-86-01 (0-5) **Date Received:** 12/27/23
Sample No: 23-11381-005 **Date Reported:** 01/16/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B Analysis Date: 12/29/23				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D Analysis Date: 01/03/24 8:00				
pH @ 25°C, 1:2	8.19		Units	
TCLP Extraction Method: 1311 Analysis Date: 12/28/23				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Analysis Date: 01/15/24				
Preparation Method 3010A Preparation Date: 01/11/24				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.96	0.10	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A Analysis Date: 01/10/24				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312 Analysis Date: 12/28/23				
SPLP Metals Extraction				Complete
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.60, IDOT WO33A
Sample ID: 3508V-86-01 (0-5)
Sample No: 23-11381-005

Date Collected: 12/27/23
Time Collected: 11:15
Date Received: 12/27/23
Date Reported: 01/16/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 01/15/24		Preparation Date: 01/11/24		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.009	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.008	0.005	mg/L	
Iron	7.6	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.10	0.10	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 01/10/24			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	101	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	108.5	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	88	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	77	45	112
8270C	2-Fluorophenol (Surr)	%R:	61.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	80	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	79	35	105
8270C	Phenol-d5 (surr)	%R:	71.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.60, IDOT WO33A
Sample ID: 3508V-86-01 (5-10)
Sample No: 23-11381-006

Date Collected: 12/27/23
Time Collected: 11:20
Date Received: 12/27/23
Date Reported: 01/16/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 12/27/23				
Total Solids	83.48		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/05/24				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.60, IDOT WO33A
Sample ID: 3508V-86-01 (5-10)
Sample No: 23-11381-006

Date Collected: 12/27/23
Time Collected: 11:20
Date Received: 12/27/23
Date Reported: 01/16/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/05/24				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 01/02/24				
Preparation Date: 12/28/23				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.60, IDOT WO33A
Sample ID: 3508V-86-01 (5-10)
Sample No: 23-11381-006

Date Collected: 12/27/23
Time Collected: 11:20
Date Received: 12/27/23
Date Reported: 01/16/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/02/24		Preparation Date: 12/28/23		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.60, IDOT WO33A
Sample ID: 3508V-86-01 (5-10)
Sample No: 23-11381-006

Date Collected: 12/27/23
Time Collected: 11:20
Date Received: 12/27/23
Date Reported: 01/16/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 01/02/24		Preparation Date: 12/28/23		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/05/24		Preparation Date: 01/03/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.1	1.0	mg/kg	
Barium	55.7	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	41,100	50	mg/kg	
Chromium	19.6	0.5	mg/kg	
Cobalt	11.4	0.5	mg/kg	
Copper	31.9	0.5	mg/kg	
Iron	22,200	5.0	mg/kg	
Lead	12.5	0.5	mg/kg	
Magnesium	23,700	50	mg/kg	
Manganese	371	0.5	mg/kg	
Nickel	33.5	0.5	mg/kg	
Potassium	2,480	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	223	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	23.1	1.0	mg/kg	
Zinc	54.3	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.60, IDOT WO33A
Sample ID: 3508V-86-01 (5-10)
Sample No: 23-11381-006

Date Collected: 12/27/23
Time Collected: 11:20
Date Received: 12/27/23
Date Reported: 01/16/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury		Method: 7471B		
Analysis Date: 12/29/23				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D		
Analysis Date: 01/03/24 8:00				
pH @ 25°C, 1:2	7.79		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 12/28/23				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 01/15/24		Preparation Date: 01/11/24		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.43	0.10	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 01/10/24				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction		Method: 1312		
Analysis Date: 12/28/23				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.60, IDOT WO33A
Sample ID: 3508V-86-01 (5-10)
Sample No: 23-11381-006

Date Collected: 12/27/23
Time Collected: 11:20
Date Received: 12/27/23
Date Reported: 01/16/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 01/15/24		Preparation Date: 01/11/24		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	3.4	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.10	0.10	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 01/10/24			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	90.9	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.8	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	101.7	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	87	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	77	45	112
8270C	2-Fluorophenol (Surr)	%R:	66	41	84
8270C	d14-Terphenyl (Surr)	%R:	81	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	82	35	105
8270C	Phenol-d5 (surr)	%R:	75.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.60, IDOT WO33A
Sample ID: 3508V-86-01 (10-14)
Sample No: 23-11381-007

Date Collected: 12/27/23
Time Collected: 11:25
Date Received: 12/27/23
Date Reported: 01/16/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 12/27/23				
Total Solids	84.92		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/08/24				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.60, IDOT WO33A
Sample ID: 3508V-86-01 (10-14)
Sample No: 23-11381-007

Date Collected: 12/27/23
Time Collected: 11:25
Date Received: 12/27/23
Date Reported: 01/16/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/08/24				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 01/02/24				
Preparation Date: 12/28/23				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.60, IDOT WO33A
Sample ID: 3508V-86-01 (10-14)
Sample No: 23-11381-007

Date Collected: 12/27/23
Time Collected: 11:25
Date Received: 12/27/23
Date Reported: 01/16/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/02/24		Preparation Date: 12/28/23		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



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Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 01/02/24		Preparation Date: 12/28/23		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/05/24		Preparation Date: 01/03/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	9.9	1.0	mg/kg	
Barium	18.8	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	42,100	50	mg/kg	
Chromium	11.0	0.5	mg/kg	
Cobalt	8.3	0.5	mg/kg	
Copper	44.1	0.5	mg/kg	
Iron	20,800	5.0	mg/kg	
Lead	17.1	0.5	mg/kg	
Magnesium	29,000	50	mg/kg	
Manganese	362	0.5	mg/kg	
Nickel	23.8	0.5	mg/kg	
Potassium	1,660	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	130	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	15.8	1.0	mg/kg	
Zinc	46.8	1.0	mg/kg	



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Time Collected: 11:25
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Date Reported: 01/16/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 12/29/23				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 01/03/24 8:00				
pH @ 25°C, 1:2	7.99		Units	
TCLP Extraction Method: 1311				
Analysis Date: 12/28/23				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C			Preparation Method 3010A	
Analysis Date: 01/15/24				
			Preparation Date: 01/11/24	
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.84	0.10	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 01/11/24				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 12/28/23				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

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Sample No: 23-11381-007

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Time Collected: 11:25
Date Received: 12/27/23
Date Reported: 01/16/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 01/15/24		Preparation Date: 01/11/24		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	0.7	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.10	0.10	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 01/10/24			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	84.4	*	86 - 117
5035A/8260B	d8-Toluene (Surr)	%R:	98		90 - 110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	109.7		77 - 120
8270C	2,4,6-Tribromophenol (Surr)	%R:	80.5		59 - 131
8270C	2-Fluorobiphenyl (Surr)	%R:	82		45 - 112
8270C	2-Fluorophenol (Surr)	%R:	60		41 - 84
8270C	d14-Terphenyl (Surr)	%R:	84		56 - 120
8270C	d5-Nitrobenzene (Surr)	%R:	79		35 - 105
8270C	Phenol-d5 (surr)	%R:	70.5		50 - 100