

**IDOT, District 1 PTB 199-014 Work Order 39A  
FAU 1504 (55th Street) At US Route 12/20/45, Countryside, Cook County, IL  
Draft PSI Report**

**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 39A 55th St (Contract: 60R50) Office Phone Number, if available: \_\_\_\_\_

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

FAU 1504 - 55th St. - US 12/20/45 to East Ave. (Sec. No. 0104WRS&N-11 / BDE Seq. No. 12403D / Proj. Job No. D-91-262-04)

City: Broadview State: IL Zip Code: 60155

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: 41.79042 Longitude: - 87.86868

(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: Jeff Williams

Email, if available: Jeff.Williams@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: Jeff Williams

Email, if available: Jeff.Williams@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 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 #24-5950, #24-6106, #24-6140, #24-6142, #24-6393, #24-6251, and #24-6328. 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:

Aug 29, 2019  
Date: \_\_\_\_\_  
  
\_\_\_\_\_  
P.E or L.P.G. Seal: 3/25

**FAU 1504 – 55<sup>th</sup> St. (US 12/20/45 to East Ave.) Countryside, IL**  
**IDOT Contract No.: 60R50 / IDOT Project Job No.: D-91-262-04**  
**BDE Sequence No.: 12403D / Section No.: 0104WRS&N-11**  
**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):

<b>Excavation Site No.</b>
1560V3-6
1560V3-17
1560V3-20
1560V3-22
1560V3-23
1560V3-24
1560V3-25
1560V3-26
1560V3-28
1560V3-29
1560V3-39
1560V3-40
1560V3-43
1560V3-44
1560V3-46
1560V3-47
1560V3-48
1560V3-52
1560V3-53
1560V3-54
1560V3-55
1560V3-56
1560V3-57
1560V3-58
1560V3-60
1560V3-61
1560V3-62
1560V3-63
1560V3-77
1560V3-82
1560V3-83
1560V3-84
1560V3-85
1560V3-86
1560V3-87
1560V3-88

**FAU 1504 – 55<sup>th</sup> St. (US 12/20/45 to East Ave.) Countryside, IL**  
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**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:

<b>Boring No.</b>	<b>Approximate Stationing</b>
1560V3-6-01	STA US 12/20/45: 207+68, 45 LT
1560V3-17-01	STA US 12/20/45: 206+68, 39 LT
1560V3-20-01	STA US 12/20/45: 205+50, 40 LT
1560V3-22-01	STA US 12/20/45: 205+00, 40 LT
1560V3-23-01	STA US 12/20/45: 203+64, 40 LT
1560V3-24-01	STA US 12/20/45: 202+99, 49 LT
1560V3-25-01	STA US 12/20/45: 202+69, 30 RT
1560V3-26-01	STA 55th St: 101+09, 40 LT
1560V3-26-03	STA US 12/20/45: 201+44, 32 RT
1560V3-28-01	STA US 12/20/45: 201+84, 41 LT
1560V3-29-03	STA US 12/20/45: 201+24, 41 LT
1560V3-39-01	STA 55th St: 90+50, 32 RT
1560V3-39-03	STA 55th St: 92+50, 32 RT
1560V3-39-04	STA 55th St: 93+50, 32 RT
1560V3-39-05	STA 55th St: 94+50, 32 RT
1560V3-40-01	STA 55th St: 90+38, 34 LT
1560V3-40-02	STA 55th St: 91+73, 34 LT
1560V3-40-03	STA 55th St: 93+20, 35 LT
1560V3-40-04	STA 55th St: 94+20, 36 LT
1560V3-40-05	STA 55th St: 95+20, 38 LT
1560V3-43-03	STA US 12/20/45: 199+35, 36 LT
1560V3-43-04	STA US 12/20/45: 198+85, 41 LT
1560V3-44-03	STA US 12/20/45: 199+46, 48 RT
1560V3-44-04	STA 55th St: 101+23, 29 RT
1560V3-46-01	STA 55th St: 102+83, 29 RT
1560V3-47-01	STA 55th St: 108+74, 44 LT
1560V3-47-03	STA 55th St: 110+44, 40 LT
1560V3-48-01	STA 55th St: 103+95, 40 LT
1560V3-52-02	STA 55th St: 107+98, 44 LT
1560V3-53-01	STA 55th St: 106+71, 32 RT
1560V3-53-03	STA 55th St: 108+61, 32 RT
1560V3-54-01	STA 55th St: 109+61, 29 RT
1560V3-55-01	STA 55th St: 110+61, 28 RT
1560V3-55-02	STA 55th St: 111+56, 28 RT
1560V3-56-01	STA 55th St: 112+46, 24 RT
1560V3-56-02	STA 55th St: 113+36, 24 RT
1560V3-57-01	STA 55th St: 113+74, 36 LT

**FAU 1504 – 55<sup>th</sup> St. (US 12/20/45 to East Ave.) Countryside, IL**  
**IDOT Contract No.: 60R50 / IDOT Project Job No.: D-91-262-04**  
**BDE Sequence No.: 12403D / Section No.: 0104WRS&N-11**  
**LPC-663 Uncontaminated Soil Certification Form**  
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<b>Boring No.</b>	<b>Approximate Stationing</b>
1560V3-57-02	STA 55th St: 114+44, 36 LT
1560V3-58-01	STA 55th St: 115+25, 26 RT
1560V3-60-01	STA 55th St: 116+45, 30 RT
1560V3-60-02	STA 55th St: 117+57, 30 RT
1560V3-61-02	STA 55th St: 118+77, 33 RT
1560V3-62-01	STA 55th St: 119+37, 33 RT
1560V3-63-01	STA 55th St: 119+59, 45 LT
1560V3-77-01	STA US 12/20/45: 197+56, 31 RT
1560V3-82-01	STA US 12/20/45: 193+96, 38 LT
1560V3-83-01	STA US 12/20/45: 193+88, 36 RT
1560V3-84-01	STA US 12/20/45: 190+93, 43 LT
1560V3-84-02	STA US 12/20/45: 191+63, 44 LT
1560V3-84-04	STA US 12/20/45: 193+03, 47 LT
1560V3-85-03	STA US 12/20/45: 192+38, 37 RT
1560V3-86-01	STA US 12/20/45: 190+33, 35 RT
1560V3-87-03	STA US 12/20/45: 190+18, 42 LT
1560V3-88-01	STA US 12/20/45: 188+28, 38 RT
1560V3-88-02	STA US 12/20/45: 189+33, 38 RT

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 Soils for Reuse or Disposal at CCDD Facilities in MSA County Including Chgo  
 FAU 1504 (55th Street)  
 Countryside, Cook County, Illinois  
 BDE Sequence No.: 12403D  
 PTB: 199-014/HH-2, Work Order No.: 39A

Boring ID	Soil Reference Concentrations <sup>a/</sup>	Soil Remediation Objective for Construction Workers <sup>b/</sup>		Soil Remediation Objective for Residential Exposure <sup>c/</sup>		1560V3-6-01	1560V3-6-01	1560V3-17-01	DUP-01 (1560V3-17-01)
						(0-3)	(3-6)	(0-3)	(0-3)
Sample Depth, ft						7/9/2024	7/9/2024	7/9/2024	7/9/2024
Sample Date									
Excavation Area(s) ID		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	1560V3-6		1560V3-17	
<b>Parameter</b>									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	7.29	7.69	8.83	8.35
PID Readings (ppm)						0.0	0.0	0.0	0.0
<b>VOCS, mg/kg</b>									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Benzene	0.03	2,300	2.2	12	0.8	<0.005	<0.005	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	13	20,000	58	7,800	400	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005
Xylenes, Total	5.6	41,000	5.6	16,000	320	<0.005	<0.005	<0.005	<0.005
<b>SVOCS, mg/kg</b>									
Acenaphthene	570	120,000	---	4,700	---	<0.33	<0.33	<0.33	<0.33
Acenaphthylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Anthracene	12,000	610,000	---	23,000	---	<0.33	<0.33	<0.33	<0.33
Benzo(a)anthracene	0.9 / 10.9* / 1.8	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Benzo(a)pyrene	0.09 / 11.4* / 2.1	17	---	0.09	---	<0.09	<b>0.115</b>	<0.09	<b>0.106</b>
Benzo(b)fluoranthene	0.9 / 13.1* / 2.1	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Benzo(k)fluoranthene	9	1,700	---	9	---	<0.33	<0.33	<0.33	<0.33
Benzo(g,h,i)perylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Chrysene	88	17,000	---	88	---	<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
Dibenzofuran	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Fluorene	560	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Indeno(1,2,3-cd)pyrene	0.9 / 5.77* / 1.6	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33
<b>Total Metals, mg/kg</b>									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	<b>4.8</b>	<b>5.0</b>	<b>3.8</b>	<b>4.5</b>
Barium	1,500	14,000	870,000	5,500	690,000	<b>134</b>	<b>119</b>	<b>40.7</b>	<b>70.8</b>
Beryllium	22	410	44,000	160	1,300	<b>0.8</b>	<b>0.8</b>	<0.5	<b>0.7</b>
Cadmium	5.2	200	59,000	78	1,800	<b>0.9</b>	<b>0.7</b>	<b>0.6</b>	<b>0.7</b>
Calcium	---	---	---	---	---	<b>5850</b>	<b>5720</b>	<b>79200</b>	<b>35600</b>
Chromium	21	4100	690	230	270	<b>20.7</b>	<b>20.4</b>	<b>17</b>	<b>15.5</b>
Cobalt	20	12000	---	4,700	---	<b>11.2</b>	<b>10.3</b>	<b>7</b>	<b>7.9</b>
Copper	2,900	8,200	---	2,900	---	<b>26.1</b>	<b>24.6</b>	<b>42.5</b>	<b>18</b>
Iron	15,000 / 15,900	---	---	---	---	<b>21700</b>	<b>20600</b>	<b>14500</b>	<b>15900</b>
Lead	107	700	---	400	---	<b>24.3</b>	<b>24.8</b>	<b>170</b>	<b>20.2</b>
Magnesium	325,000	730,000	---	325,000	---	<b>3790</b>	<b>3760</b>	<b>42000</b>	<b>23100</b>
Manganese	630 / 636	4100	8,700	1,600	---	<b>356</b>	<b>339</b>	<b>295</b>	<b>218</b>
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	<b>24.4</b>	<b>23</b>	<b>19.6</b>	<b>20.7</b>
Potassium	---	---	---	---	---	<b>2100</b>	<b>2030</b>	<b>1420</b>	<b>1550</b>
Silver	4.4	1000	---	390	---	<0.2	<b>0.2</b>	<0.2	<0.2
Sodium	---	---	---	---	---	<b>274</b>	<b>249</b>	<b>1710</b>	<b>2650</b>
Vanadium	550	1400	---	550	---	<b>30.5</b>	<b>30.7</b>	<b>17.9</b>	<b>22.6</b>
Zinc	5,100	61,000	---	23,000	---	<b>69.3</b>	<b>71.2</b>	<b>69.7</b>	<b>50.5</b>
<b>TCLP Metals, mg/L</b>			Class I Groundwater <sup>d/</sup>						
Arsenic				0.05		<b>0.012</b>	<0.010	<0.010	<0.010
Barium				2		<1.0	<1.0	<1.0	<1.0
Cadmium				0.005		<0.005	<0.005	<0.005	<0.005
Iron				5		<0.1	<0.1	<b>0.2</b>	<0.1
Lead				0.0075		<0.005	<0.005	<b>0.006</b>	<0.005
Manganese				0.15		<b>3.76</b>	<b>5.41</b>	<b>3.9</b>	<b>2.25</b>
Selenium				0.05		<0.010	<0.010	<0.010	<0.010
Zinc				5		<0.1	<0.1	<0.1	<0.1
<b>SPLP Metals, mg/L</b>			Class I Groundwater <sup>d/</sup>						
Arsenic				0.05		<b>0.011</b>	<b>0.01</b>	<b>0.094</b>	<b>0.034</b>
Barium				2		<1.0	<1.0	<b>1.2</b>	<1.0
Beryllium				0.004		<0.004	<0.004	<b>0.009</b>	<b>0.006</b>
Cadmium				0.005		<0.005	<0.005	<b>0.009</b>	<0.005
Chromium				0.1		<b>0.033</b>	<b>0.028</b>	<b>0.359</b>	<b>0.145</b>
Cobalt				1		<0.1	<0.1	<b>0.2</b>	<0.1
Copper				0.65		<b>0.041</b>	<b>0.036</b>	<b>0.404</b>	<b>0.132</b>
Iron				5		<b>31.7</b>	<b>26.3</b>	<b>352</b>	<b>142</b>
Lead				0.0075		<b>0.029</b>	<b>0.032</b>	<b>0.495</b>	<b>0.154</b>
Manganese				0.15		<b>0.48</b>	<b>0.34</b>	<b>3.21</b>	<b>1.08</b>
Nickel				0.1		<0.1	<0.1	<b>0.5</b>	<b>0.2</b>
Selenium				0.05		<0.010	<0.010	<b>0.011</b>	<0.010
Zinc				5		<b>0.1</b>	<0.1	<b>0.8</b>	<b>0.4</b>

--- Refers to not applicable or value not available

<sup>a/</sup> 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.

<sup>b/</sup> Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

<sup>c/</sup> Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

<sup>d/</sup> 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.

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

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 Soils for Reuse or Disposal at CCDD Facilities in MSA County Including Chgo  
 FAU 1504 (55th Street)  
 Countryside, Cook County, Illinois  
 BDE Sequence No.: 12403D  
 PTB: 199-014/HH-2, Work Order No.: 39A

Boring ID	Soil Reference Concentrations <sup>a/</sup>	Soil Remediation Objective for Construction Workers <sup>b/</sup>		Soil Remediation Objective for Residential Exposure <sup>c/</sup>		1560V3-20-01	1560V3-20-01	1560V3-22-01	1560V3-23-01
						(0-3)	(3-6)	(0-5)	(0-5)
Sample Depth, ft						7/9/2024	7/9/2024	7/9/2024	7/9/2024
Sample Date									
Excavation Area(s) ID		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	1560V3-20		1560V3-22	1560V3-23
<b>Parameter</b>									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	7.51	7.81	8.16	8.69
PID Readings (ppm)						0.0	0.0	0.0	<b>0.3</b>
<b>VOCS, mg/kg</b>									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Benzene	0.03	2,300	2.2	12	0.8	<0.005	<0.005	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	13	20,000	58	7,800	400	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005
Xylenes, Total	5.6	41,000	5.6	16,000	320	<0.005	<0.005	<0.005	<0.005
<b>SVOCS, mg/kg</b>									
Acenaphthene	570	120,000	---	4,700	---	<0.33	<0.33	<0.33	<0.33
Acenaphthylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Anthracene	12,000	610,000	---	23,000	---	<0.33	<0.33	<0.33	<0.33
Benzo(a)anthracene	0.9 / 10.9* / 1.8	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Benzo(a)pyrene	0.09 / 11.4* / 2.1	17	---	0.09	---	<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	<0.33
Benzo(k)fluoranthene	9	1,700	---	9	---	<0.33	<0.33	<0.33	<0.33
Benzo(g,h,i)perylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Chrysene	88	17,000	---	88	---	<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
Dibenzofuran	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Fluorene	560	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Indeno(1,2,3-cd)pyrene	0.9 / 5.77* / 1.6	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33
<b>Total Metals, mg/kg</b>									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	<b>5.8</b>	<b>5.5</b>	<b>5.3</b>	<b>1.8</b>
Barium	1,500	14,000	870,000	5,500	690,000	<b>122</b>	<b>101</b>	<b>144</b>	<b>28.7</b>
Beryllium	22	410	44,000	160	1,300	<b>0.7</b>	<b>0.7</b>	<b>1</b>	<0.5
Cadmium	5.2	200	59,000	78	1,800	<b>0.7</b>	<b>0.6</b>	<b>0.8</b>	<0.5
Calcium	---	---	---	---	---	<b>6060</b>	<b>8450</b>	<b>3750</b>	<b>135000</b>
Chromium	21	4100	690	230	270	<b>21.3</b>	<b>23.3</b>	<b>23</b>	<b>5.1</b>
Cobalt	20	12000	---	4,700	---	<b>14.7</b>	<b>10.8</b>	<b>10.6</b>	<b>2.2</b>
Copper	2,900	8,200	---	2,900	---	<b>25.3</b>	<b>23.4</b>	<b>21.4</b>	<b>6.5</b>
Iron	15,000 / 15,900	---	---	---	---	<b>24800</b>	<b>24900</b>	<b>23800</b>	<b>5390</b>
Lead	107	700	---	400	---	<b>19.6</b>	<b>12.2</b>	<b>12.3</b>	<b>23</b>
Magnesium	325,000	730,000	---	325,000	---	<b>4860</b>	<b>8390</b>	<b>4820</b>	<b>82200</b>
Manganese	630 / 636	4100	8,700	1,600	---	<b>556</b>	<b>229</b>	<b>150</b>	<b>208</b>
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	<b>30.4</b>	<b>30.3</b>	<b>26.6</b>	<b>6.3</b>
Potassium	---	---	---	---	---	<b>1750</b>	<b>1530</b>	<b>1410</b>	<b>772</b>
Silver	4.4	1000	---	390	---	<0.2	<b>0.2</b>	<b>0.3</b>	<0.2
Sodium	---	---	---	---	---	<b>1620</b>	<b>264</b>	<b>700</b>	<b>744</b>
Vanadium	550	1400	---	550	---	<b>29.9</b>	<b>29</b>	<b>33.1</b>	<b>7.8</b>
Zinc	5,100	61,000	---	23,000	---	<b>66.9</b>	<b>56.2</b>	<b>50.8</b>	<b>34.4</b>
<b>TCLP Metals, mg/L</b>			Class I Groundwater <sup>d/</sup>						
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Iron			5			<b>0.5</b>	<0.1	<b>0.2</b>	<0.1
Lead			0.0075			<0.005	<b>0.007</b>	<0.005	<0.005
Manganese			0.15			<b>7.19</b>	<b>3.68</b>	<b>1.14</b>	<b>1.62</b>
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Zinc			5			<0.1	<0.1	<0.1	<0.1
<b>SPLP Metals, mg/L</b>			Class I Groundwater <sup>d/</sup>						
Arsenic			0.05			<b>0.014</b>	<0.010	<b>0.014</b>	<b>0.01</b>
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<b>0.053</b>	<b>0.058</b>	<b>0.119</b>	<b>0.043</b>
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			<b>0.098</b>	<b>0.048</b>	<b>0.115</b>	<b>0.039</b>
Iron			5			<b>52.4</b>	<b>54.7</b>	<b>106</b>	<b>37.1</b>
Lead			0.0075			<b>0.065</b>	<b>0.021</b>	<b>0.049</b>	<b>0.108</b>
Manganese			0.15			<b>0.92</b>	<b>0.41</b>	<b>0.5</b>	<b>0.24</b>
Nickel			0.1			<0.1	<0.1	<b>0.1</b>	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Zinc			5			<b>0.2</b>	<b>0.1</b>	<b>0.2</b>	<b>0.7</b>

--- Refers to not applicable or value not available

<sup>a/</sup> 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.

<sup>b/</sup> Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

<sup>c/</sup> Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

<sup>d/</sup> 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.

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



LPC-663 (Page 3 of 30)  
 Soils for Reuse or Disposal at CCDD Facilities in MSA County Including Chgo  
 FAU 1504 (55th Street)  
 Countryside, Cook County, Illinois  
 BDE Sequence No.: 12403D  
 PTB: 199-014/HH-2, Work Order No.: 39A

Boring ID	Soil Reference Concentrations <sup>a/</sup>	Soil Remediation Objective for Construction Workers <sup>b/</sup>		Soil Remediation Objective for Residential Exposure <sup>c/</sup>		1560V3-24-01	DUP-02 (1560V3-24-01)	1560V3-24-01	1560V3-25-01
						(0-3)	(0-3)	(3-6)	(0-4)
Sample Depth, ft	Sample Date					7/9/2024	7/9/2024	7/9/2024	7/9/2024
Excavation Area(s) ID		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	1560V3-24			1560V3-25
<b>Parameter</b>									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	7.80	7.65	8.37	8.78
PID Readings (ppm)						0.0	0.0	0.0	0.0
<b>VOCS, mg/kg</b>									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Benzene	0.03	2,300	2.2	12	0.8	<0.005	<0.005	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	13	20,000	58	7,800	400	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005
Xylenes, Total	5.6	41,000	5.6	16,000	320	<0.005	<0.005	<0.005	<0.005
<b>SVOCS, mg/kg</b>									
Acenaphthene	570	120,000	---	4,700	---	<0.33	<0.33	<0.33	<0.33
Acenaphthylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Anthracene	12,000	610,000	---	23,000	---	<0.33	<0.33	<0.33	<0.33
Benzo(a)anthracene	0.9 / 10.9* / 1.8	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Benzo(a)pyrene	0.09 / 11.4* / 2.1	17	---	0.09	---	<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	<0.33
Benzo(k)fluoranthene	9	1,700	---	9	---	<0.33	<0.33	<0.33	<0.33
Benzo(g,h,i)perylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Chrysene	88	17,000	---	88	---	<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
Dibenzofuran	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Fluorene	560	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Indeno(1,2,3-cd)pyrene	0.9 / 5.77* / 1.6	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33
<b>Total Metals, mg/kg</b>									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	<b>5.8</b>	<b>5</b>	<b>3</b>	<b>5.8</b>
Barium	1,500	14,000	870,000	5,500	690,000	<b>118</b>	<b>138</b>	<b>69.3</b>	<b>35.5</b>
Beryllium	22	410	44,000	160	1,300	<b>0.9</b>	<b>1</b>	<b>0.6</b>	<b>0.7</b>
Cadmium	5.2	200	59,000	78	1,800	<b>0.9</b>	<b>0.6</b>	<b>0.7</b>	<b>1</b>
Calcium	---	---	---	---	---	<b>5970</b>	<b>6550</b>	<b>82500</b>	<b>58900</b>
Chromium	21	4100	690	230	270	<b>18.1</b>	<b>22.8</b>	<b>14.3</b>	<b>20.6</b>
Cobalt	20	12000	---	4,700	---	<b>8</b>	<b>8.1</b>	<b>4.8</b>	<b>9.3</b>
Copper	2,900	8,200	---	2,900	---	<b>23.9</b>	<b>29</b>	<b>16.3</b>	<b>25</b>
Iron	15,000 / 15,900	---	---	---	---	<b>18500</b>	<b>22800</b>	<b>12600</b>	<b>22700</b>
Lead	107	700	---	400	---	<b>18.5</b>	<b>15.8</b>	<b>11</b>	<b>11</b>
Magnesium	325,000	730,000	---	325,000	---	<b>3620</b>	<b>4470</b>	<b>52100</b>	<b>26700</b>
Manganese	630 / 636	4100	8,700	1,600	---	<b>217</b>	<b>224</b>	<b>183</b>	<b>347</b>
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	<b>21.4</b>	<b>25.4</b>	<b>14.4</b>	<b>30.9</b>
Potassium	---	---	---	---	---	<b>1670</b>	<b>1620</b>	<b>1080</b>	<b>2570</b>
Silver	4.4	1000	---	390	---	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.3</b>
Sodium	---	---	---	---	---	<b>3540</b>	<b>3900</b>	<b>1400</b>	<b>1680</b>
Vanadium	550	1400	---	550	---	<b>28.8</b>	<b>35.4</b>	<b>20.2</b>	<b>25.8</b>
Zinc	5,100	61,000	---	23,000	---	<b>58.2</b>	<b>55.8</b>	<b>33.4</b>	<b>49.4</b>
<b>TCLP Metals, mg/L</b>		Class I Groundwater <sup>d/</sup>							
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Iron			5			<b>1.3</b>	<b>0.3</b>	<0.1	<b>0.2</b>
Lead			0.0075			<0.005	<0.005	<0.005	<0.005
Manganese			0.15			<b>1.61</b>	<b>1.96</b>	<b>4.31</b>	<b>5.07</b>
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Zinc			5			<0.1	<0.1	<0.1	<0.1
<b>SPLP Metals, mg/L</b>		Class I Groundwater <sup>d/</sup>							
Arsenic			0.05			<b>0.012</b>	<b>0.012</b>	<0.010	<b>0.01</b>
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<b>0.024</b>	<b>0.057</b>	<b>0.017</b>	<b>0.041</b>
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			<b>0.031</b>	<b>0.049</b>	<b>0.018</b>	<b>0.044</b>
Iron			5			<b>19.5</b>	<b>53.8</b>	<b>14.5</b>	<b>39</b>
Lead			0.0075			<b>0.008</b>	<b>0.025</b>	<b>0.006</b>	<b>0.015</b>
Manganese			0.15			<0.10	<b>0.28</b>	<0.10	<b>0.33</b>
Nickel			0.1			<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Zinc			5			<0.1	<b>0.1</b>	<0.1	<0.1

--- Refers to not applicable or value not available

<sup>a/</sup> 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.

<sup>b/</sup> Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

<sup>c/</sup> Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

<sup>d/</sup> 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.

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

LPC-663 (Page 4 of 30)  
 Soils for Reuse or Disposal at CCDD Facilities in MSA County Including Chgo  
 FAU 1504 (55th Street)  
 Countryside, Cook County, Illinois  
 BDE Sequence No.: 12403D  
 PTB: 199-014/HH-2, Work Order No.: 39A

Boring ID	Soil Reference Concentrations <sup>a/</sup>	Soil Remediation Objective for Construction Workers <sup>b/</sup>		Soil Remediation Objective for Residential Exposure <sup>c/</sup>		1560V3-25-01	1560V3-26-01	1560V3-26-01	1560V3-26-03
						(4-8)	(0-5)	(5-9)	(0-5)
Sample Depth, ft						7/9/2024	7/10/2024	7/10/2024	7/9/2024
Sample Date									
Excavation Area(s) ID		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	1560V3-25	1560V3-26		
<b>Parameter</b>									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.96	7.83	7.78	8.73
PID Readings (ppm)						0.0	0.0	0.0	0.0
<b>VOCS, mg/kg</b>									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Benzene	0.03	2,300	2.2	12	0.8	<0.005	<0.005	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	13	20,000	58	7,800	400	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005
Xylenes, Total	5.6	41,000	5.6	16,000	320	<0.005	<0.005	<0.005	<0.005
<b>SVOCS, mg/kg</b>									
Acenaphthene	570	120,000	---	4,700	---	<b>0.725</b>	<0.33	<0.33	<0.33
Acenaphthylene	---	---	---	---	---	<b>0.369</b>	<0.33	<0.33	<b>0.437</b>
Anthracene	12,000	610,000	---	23,000	---	<b>0.761</b>	<0.33	<0.33	<b>0.555</b>
Benzo(a)anthracene	0.9 / 10.9* / 1.8	170	---	0.9	---	<b>0.756</b>	<b>0.864</b>	<0.33	<b>0.804</b>
Benzo(a)pyrene	0.09 / 11.4* / 2.1	17	---	0.09	---	<b>0.625</b>	<b>0.922</b>	<b>0.214</b>	<b>0.726</b>
Benzo(b)fluoranthene	0.9 / 13.1* / 2.1	170	---	0.9	---	<b>0.74</b>	<b>1.23</b>	<0.33	<b>0.839</b>
Benzo(k)fluoranthene	9	1,700	---	9	---	<0.33	<b>0.488</b>	<0.33	<b>0.355</b>
Benzo(g,h,i)perylene	---	---	---	---	---	<b>0.333</b>	<b>0.64</b>	<0.33	<b>0.408</b>
Chrysene	88	17,000	---	88	---	<b>0.678</b>	<b>0.901</b>	<0.33	<b>0.712</b>
Dibenz(a,h)anthracene	0.09 / 1.03* / 0.42	17	---	0.09	---	<0.09	<b>0.155</b>	<0.09	<b>0.101</b>
Dibenzofuran	---	---	---	---	---	<b>0.61</b>	<0.33	<0.33	<0.33
Fluoranthene	3,100	82,000	---	3,100	---	<b>2.42</b>	<b>1.69</b>	<0.33	<b>2.08</b>
Fluorene	560	82,000	---	3,100	---	<b>0.48</b>	<0.33	<0.33	<0.33
Indeno(1,2,3-cd)pyrene	0.9 / 5.77* / 1.6	170	---	0.9	---	<b>0.399</b>	<b>0.717</b>	<0.33	<b>0.496</b>
Phenanthrene	---	---	---	---	---	<b>1.81</b>	<b>0.605</b>	<0.33	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<b>1.67</b>	<b>1.36</b>	<0.33	<b>1.58</b>
<b>Total Metals, mg/kg</b>									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<b>1.2</b>
Arsenic	11.3 / 13	61	25,000	---	750	<b>7.8</b>	<b>4.1</b>	<b>8.3</b>	<b>4.8</b>
Barium	1,500	14,000	870,000	5,500	690,000	<b>90</b>	<b>55.8</b>	<b>60.4</b>	<b>66</b>
Beryllium	22	410	44,000	160	1,300	<b>0.9</b>	<0.5	<b>0.5</b>	<b>0.8</b>
Cadmium	5.2	200	59,000	78	1,800	<b>0.9</b>	<b>0.5</b>	<b>0.6</b>	<b>0.8</b>
Calcium	---	---	---	---	---	<b>19900</b>	<b>76200</b>	<b>51100</b>	<b>90600</b>
Chromium	21	4100	690	230	270	<b>17.5</b>	<b>11.9</b>	<b>19.5</b>	<b>15.2</b>
Cobalt	20	12000	---	4,700	---	<b>8.4</b>	<b>6</b>	<b>12</b>	<b>8.4</b>
Copper	2,900	8,200	---	2,900	---	<b>31.4</b>	<b>15.3</b>	<b>25</b>	<b>22</b>
Iron	15,000 / 15,900	---	---	---	---	<b>18400</b>	<b>13100</b>	<b>24400</b>	<b>15400</b>
Lead	107	700	---	400	---	<b>39.4</b>	<b>22.3</b>	<b>14.8</b>	<b>66.7</b>
Magnesium	325,000	730,000	---	325,000	---	<b>14300</b>	<b>47900</b>	<b>23500</b>	<b>52800</b>
Manganese	630 / 636	4100	8,700	1,600	---	<b>142</b>	<b>274</b>	<b>413</b>	<b>392</b>
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<b>0.05</b>
Nickel	100	4100	440,000	1,600	13,000	<b>24.5</b>	<b>16</b>	<b>30.1</b>	<b>20.4</b>
Potassium	---	---	---	---	---	<b>1190</b>	<b>1220</b>	<b>2020</b>	<b>1360</b>
Silver	4.4	1000	---	390	---	<b>0.2</b>	<b>0.2</b>	<b>0.3</b>	<0.2
Sodium	---	---	---	---	---	<b>1680</b>	<b>176</b>	<b>273</b>	<b>1700</b>
Vanadium	550	1400	---	550	---	<b>27.8</b>	<b>17.8</b>	<b>26</b>	<b>18.8</b>
Zinc	5,100	61,000	---	23,000	---	<b>65.3</b>	<b>41.8</b>	<b>57.6</b>	<b>59</b>
<b>TCLP Metals, mg/L</b>									
Class I Groundwater <sup>d/</sup>									
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Iron			5			<b>0.2</b>	<0.1	<0.1	<0.1
Lead			0.0075			<b>0.014</b>	<0.005	<0.005	<b>0.019</b>
Manganese			0.15			<b>4.97</b>	<0.10	<b>3.57</b>	<b>7.59</b>
Selenium			0.05			<0.010	<0.010	<0.010	<b>0.011</b>
Zinc			5			<b>0.1</b>	<0.1	<0.1	<0.1
<b>SPLP Metals, mg/L</b>									
Class I Groundwater <sup>d/</sup>									
Arsenic			0.05			<b>0.01</b>	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<b>0.033</b>	<b>0.022</b>	<0.005	<b>0.031</b>
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			<b>0.046</b>	<b>0.022</b>	<0.005	<b>0.03</b>
Iron			5			<b>32.4</b>	<b>22.5</b>	<b>0.9</b>	<b>30.5</b>
Lead			0.0075			<b>0.025</b>	<b>0.027</b>	<0.005	<b>0.027</b>
Manganese			0.15			<b>0.15</b>	<b>0.12</b>	<0.10	<b>0.2</b>
Nickel			0.1			<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Zinc			5			<b>0.1</b>	<0.1	<0.1	<0.1

--- Refers to not applicable or value not available

<sup>a/</sup> 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.

<sup>b/</sup> Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

<sup>c/</sup> Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

<sup>d/</sup> 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.

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

LPC-663 (Page 5 of 30)  
 Soils for Reuse or Disposal at CCDD Facilities in MSA County Including Chgo  
 FAU 1504 (55th Street)  
 Countryside, Cook County, Illinois  
 BDE Sequence No.: 12403D  
 PTB: 199-014/HH-2, Work Order No.: 39A

Boring ID	Soil Reference Concentrations <sup>a/</sup>	Soil Remediation Objective for Construction Workers <sup>b/</sup>		Soil Remediation Objective for Residential Exposure <sup>c/</sup>		1560V3-26-03	1560V3-28-01	1560V3-29-03	1560V3-29-03
						(5-9)	(0-4)	(0-4)	(4-8)
Sample Depth, ft						7/9/2024	7/9/2024	7/9/2024	7/9/2024
Sample Date									
Excavation Area(s) ID		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	1560V3-26	1560V3-28	1560V3-29	
<b>Parameter</b>									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.26	7.88	7.57	8.27
PID Readings (ppm)						<b>0.4</b>	0.0	<b>0.6</b>	0.0
<b>VOCS, mg/kg</b>									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Benzene	0.03	2,300	2.2	12	0.8	<0.005	<0.005	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	13	20,000	58	7,800	400	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005
Xylenes, Total	5.6	41,000	5.6	16,000	320	<0.005	<0.005	<0.005	<0.005
<b>SVOCS, mg/kg</b>									
Acenaphthene	570	120,000	---	4,700	---	<0.33	<0.33	<0.33	<0.33
Acenaphthylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Anthracene	12,000	610,000	---	23,000	---	<0.33	<0.33	<0.33	<0.33
Benzo(a)anthracene	0.9 / 10.9* / 1.8	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Benzo(a)pyrene	0.09 / 11.4* / 2.1	17	---	0.09	---	<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	<0.33
Benzo(k)fluoranthene	9	1,700	---	9	---	<0.33	<0.33	<0.33	<0.33
Benzo(g,h,i)perylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Chrysene	88	17,000	---	88	---	<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
Dibenzofuran	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Fluorene	560	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Indeno(1,2,3-cd)pyrene	0.9 / 5.77* / 1.6	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33
<b>Total Metals, mg/kg</b>									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	<b>6</b>	<b>2.1</b>	<b>6.3</b>	<b>7</b>
Barium	1,500	14,000	870,000	5,500	690,000	<b>54.2</b>	<b>133</b>	<b>114</b>	<b>48.8</b>
Beryllium	22	410	44,000	160	1,300	<b>0.7</b>	<b>1</b>	<b>0.9</b>	<b>0.6</b>
Cadmium	5.2	200	59,000	78	1,800	<b>0.9</b>	<b>0.9</b>	<b>0.9</b>	<b>0.9</b>
Calcium	---	---	---	---	---	<b>48100</b>	<b>7230</b>	<b>4680</b>	<b>25200</b>
Chromium	21	4100	690	230	270	<b>19.5</b>	<b>20.6</b>	<b>20.4</b>	<b>18.7</b>
Cobalt	20	12000	---	4,700	---	<b>10.7</b>	<b>9.4</b>	<b>11.8</b>	<b>12.1</b>
Copper	2,900	8,200	---	2,900	---	<b>25.1</b>	<b>25.4</b>	<b>22.3</b>	<b>24.5</b>
Iron	15,000 / 15,900	---	---	---	---	<b>21700</b>	<b>19200</b>	<b>22600</b>	<b>22000</b>
Lead	107	700	---	400	---	<b>15</b>	<b>13.7</b>	<b>15.3</b>	<b>11.4</b>
Magnesium	325,000	730,000	---	325,000	---	<b>23900</b>	<b>6530</b>	<b>4770</b>	<b>18400</b>
Manganese	630 / 636	4100	8,700	1,600	---	<b>353</b>	<b>210</b>	<b>489</b>	<b>398</b>
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	<b>29.1</b>	<b>28.4</b>	<b>27.9</b>	<b>31.1</b>
Potassium	---	---	---	---	---	<b>2130</b>	<b>1420</b>	<b>1530</b>	<b>1770</b>
Silver	4.4	1000	---	390	---	<b>0.3</b>	<b>0.3</b>	<b>0.3</b>	<b>0.2</b>
Sodium	---	---	---	---	---	<b>867</b>	<b>1980</b>	<b>2590</b>	<b>933</b>
Vanadium	550	1400	---	550	---	<b>24.2</b>	<b>29.7</b>	<b>30</b>	<b>22.9</b>
Zinc	5,100	61,000	---	23,000	---	<b>49.2</b>	<b>48.6</b>	<b>49.3</b>	<b>46.2</b>
<b>TCLP Metals, mg/L</b>			Class I Groundwater <sup>d/</sup>						
Arsenic				0.05		<0.010	<0.010	<0.010	<0.010
Barium				2		<1.0	<1.0	<1.0	<1.0
Cadmium				0.005		<0.005	<0.005	<0.005	<0.005
Iron				5		<0.1	<0.1	<b>0.3</b>	<0.1
Lead				0.0075		<0.005	<0.005	<0.005	<0.005
Manganese				0.15		<b>0.79</b>	<b>1.77</b>	<b>0.21</b>	<b>5.39</b>
Selenium				0.05		<0.010	<0.010	<0.010	<0.010
Zinc				5		<0.1	<0.1	<0.1	<0.1
<b>SPLP Metals, mg/L</b>			Class I Groundwater <sup>d/</sup>						
Arsenic				0.05		<0.010	<0.010	<0.010	<b>0.034</b>
Barium				2		<1.0	<1.0	<1.0	<1.0
Beryllium				0.004		<0.004	<0.004	<0.004	<0.004
Cadmium				0.005		<0.005	<0.005	<0.005	<0.005
Chromium				0.1		<b>0.012</b>	<b>0.07</b>	<b>0.076</b>	<b>0.086</b>
Cobalt				1		<0.1	<0.1	<0.1	<0.1
Copper				0.65		<b>0.011</b>	<b>0.069</b>	<b>0.061</b>	<b>0.112</b>
Iron				5		<b>10.7</b>	<b>65.9</b>	<b>70.3</b>	<b>98.2</b>
Lead				0.0075		<0.005	<b>0.033</b>	<b>0.027</b>	<b>0.041</b>
Manganese				0.15		<0.10	<b>0.45</b>	<b>0.5</b>	<b>0.89</b>
Nickel				0.1		<0.1	<0.1	<0.1	<b>0.1</b>
Selenium				0.05		<0.010	<0.010	<0.010	<0.010
Zinc				5		<0.1	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>

--- Refers to not applicable or value not available

<sup>a/</sup> 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.

<sup>b/</sup> Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

<sup>c/</sup> Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

<sup>d/</sup> 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.

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



LPC-663 (Page 7 of 30)  
 Soils for Reuse or Disposal at CCDD Facilities in MSA County Including Chgo  
 FAU 1504 (55th Street)  
 Countryside, Cook County, Illinois  
 BDE Sequence No.: 12403D  
 PTB: 199-014/HH-2, Work Order No.: 39A

Boring ID	Soil Reference Concentrations <sup>a/</sup>	Soil Remediation Objective for Construction Workers <sup>b/</sup>		Soil Remediation Objective for Residential Exposure <sup>c/</sup>		1560V3-39-03	1560V3-39-04	1560V3-39-04	1560V3-39-05
						(3-6)	(0-3)	(3-6)	(0-3)
Sample Depth, ft						7/18/2024	7/18/2024	7/18/2024	7/18/2024
Sample Date						1560V3-39			
Excavation Area(s) ID		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route				
Parameter									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.64	8.91	8.88	8.78
PID Readings (ppm)						<b>0.4</b>	<b>0.4</b>	0.0	<b>0.3</b>
<b>VOCS, mg/kg</b>									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Benzene	0.03	2,300	2.2	12	0.8	<0.005	<0.005	<0.005	<b>0.0067</b>
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	13	20,000	58	7,800	400	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<b>0.007</b>
Xylenes, Total	5.6	41,000	5.6	16,000	320	<0.005	<0.005	<0.005	<0.005
<b>SVOCS, mg/kg</b>									
Acenaphthene	570	120,000	---	4,700	---	<0.33	<0.33	<0.33	<0.33
Acenaphthylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Anthracene	12,000	610,000	---	23,000	---	<0.33	<0.33	<0.33	<0.33
Benzo(a)anthracene	0.9 / 10.9* / 1.8	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Benzo(a)pyrene	0.09 / 11.4* / 2.1	17	---	0.09	---	<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	<0.33
Benzo(k)fluoranthene	9	1,700	---	9	---	<0.33	<0.33	<0.33	<0.33
Benzo(g,h,i)perylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Chrysene	88	17,000	---	88	---	<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
Dibenzofuran	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Fluorene	560	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Indeno(1,2,3-cd)pyrene	0.9 / 5.77* / 1.6	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33
<b>Total Metals, mg/kg</b>									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	<b>5.9</b>	<b>6.4</b>	<b>2.5</b>	<b>10.4</b>
Barium	1,500	14,000	870,000	5,500	690,000	<b>42.1</b>	<b>82.6</b>	<b>50</b>	<b>50.3</b>
Beryllium	22	410	44,000	160	1,300	<b>0.5</b>	<b>0.6</b>	<b>0.5</b>	<b>0.6</b>
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<b>0.6</b>
Calcium	---	---	---	---	---	<b>48500</b>	<b>57100</b>	<b>55900</b>	<b>44700</b>
Chromium	21	4100	690	230	270	<b>17.8</b>	<b>18.2</b>	<b>16.8</b>	<b>17.5</b>
Cobalt	20	12000	---	4,700	---	<b>6.1</b>	<b>13.5</b>	<b>6.4</b>	<b>14.8</b>
Copper	2,900	8,200	---	2,900	---	<b>26.4</b>	<b>20.8</b>	<b>20</b>	<b>37.3</b>
Iron	15,000 / 15,900	---	---	---	---	<b>19300</b>	<b>19500</b>	<b>16600</b>	<b>23700</b>
Lead	107	700	---	400	---	<b>9.6</b>	<b>14</b>	<b>9.1</b>	<b>16.6</b>
Magnesium	325,000	730,000	---	325,000	---	<b>22100</b>	<b>20600</b>	<b>21400</b>	<b>22300</b>
Manganese	630 / 636	4100	8,700	1,600	---	<b>223</b>	<b>563</b>	<b>229</b>	<b>504</b>
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	<b>25.4</b>	<b>30.2</b>	<b>21</b>	<b>38.8</b>
Potassium	---	---	---	---	---	<b>2230</b>	<b>1630</b>	<b>1790</b>	<b>1580</b>
Silver	4.4	1000	---	390	---	<b>0.2</b>	<0.2	<b>0.2</b>	<b>0.2</b>
Sodium	---	---	---	---	---	<b>661</b>	<b>994</b>	<b>821</b>	<b>1210</b>
Vanadium	550	1400	---	550	---	<b>22.2</b>	<b>23.7</b>	<b>18.9</b>	<b>23.2</b>
Zinc	5,100	61,000	---	23,000	---	<b>43.5</b>	<b>38.5</b>	<b>37</b>	<b>46.8</b>
<b>TCLP Metals, mg/L</b>			Class I Groundwater <sup>d/</sup>						
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Iron			5			<0.1	<0.1	<0.1	<0.1
Lead			0.0075			<0.005	<0.005	<0.005	<0.005
Manganese			0.15			<b>2.6</b>	<b>1.93</b>	<b>2.14</b>	<0.10
Selenium			0.05			<0.010	<0.010	<b>0.011</b>	<0.010
Zinc			5			<0.1	<0.1	<0.1	<0.1
<b>SPLP Metals, mg/L</b>			Class I Groundwater <sup>d/</sup>						
Arsenic			0.05			<b>0.04</b>	<b>0.054</b>	<b>0.07</b>	<b>0.087</b>
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<b>0.005</b>	<b>0.006</b>	<b>0.007</b>	<b>0.007</b>
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<b>0.121</b>	<b>0.164</b>	<b>0.206</b>	<b>0.153</b>
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			<b>0.145</b>	<b>0.165</b>	<b>0.248</b>	<b>0.321</b>
Iron			5			<b>118</b>	<b>158</b>	<b>207</b>	<b>194</b>
Lead			0.0075			<b>0.056</b>	<b>0.064</b>	<b>0.092</b>	<b>0.088</b>
Manganese			0.15			<b>0.77</b>	<b>0.74</b>	<b>0.9</b>	<b>0.72</b>
Nickel			0.1			<b>0.2</b>	<b>0.2</b>	<b>0.3</b>	<b>0.2</b>
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Zinc			5			<b>0.3</b>	<b>0.3</b>	<b>0.4</b>	<b>0.4</b>

--- Refers to not applicable or value not available

<sup>a/</sup> 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.

<sup>b/</sup> Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

<sup>c/</sup> Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

<sup>d/</sup> 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.

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

Soils for Reuse or Disposal at CCDD Facilities in MSA County Including Chgo

FAU 1504 (55th Street)

Countryside, Cook County, Illinois

BDE Sequence No.: 12403D

PTB: 199-014/HH-2, Work Order No.: 39A

Boring ID	Soil Reference Concentrations <sup>a/</sup>	Soil Remediation Objective for Construction Workers <sup>b/</sup>		Soil Remediation Objective for Residential Exposure <sup>c/</sup>		1560V3-39-05	1560V3-40-01	1560V3-40-01	1560V3-40-01
						(3-6)	(0-4)	(4-8)	(8-11)
Sample Depth, ft						7/18/2024	7/18/2024	7/18/2024	7/18/2024
Sample Date									
Excavation Area(s) ID		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	1560V3-39	1560V3-40		
<b>Parameter</b>									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.96	8.64	8.55	8.65
PID Readings (ppm)						<b>0.6</b>	<b>0.1</b>	0.0	0.0
<b>VOCS, mg/kg</b>									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Benzene	0.03	2,300	2.2	12	0.8	<b>0.0062</b>	<0.005	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<b>0.0424</b>
Ethylbenzene	13	20,000	58	7,800	400	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<b>0.0079</b>	<0.005	<0.005	<0.005
Xylenes, Total	5.6	41,000	5.6	16,000	320	<0.005	<0.005	<0.005	<0.005
<b>SVOCS, mg/kg</b>									
Acenaphthene	570	120,000	---	4,700	---	<0.33	<0.33	<0.33	<0.33
Acenaphthylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Anthracene	12,000	610,000	---	23,000	---	<0.33	<0.33	<0.33	<0.33
Benzo(a)anthracene	0.9 / 10.9* / 1.8	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Benzo(a)pyrene	0.09 / 11.4* / 2.1	17	---	0.09	---	<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	<0.33
Benzo(k)fluoranthene	9	1,700	---	9	---	<0.33	<0.33	<0.33	<0.33
Benzo(g,h,i)perylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Chrysene	88	17,000	---	88	---	<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
Dibenzofuran	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Fluorene	560	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Indeno(1,2,3-cd)pyrene	0.9 / 5.77* / 1.6	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33
<b>Total Metals, mg/kg</b>									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	<b>6.3</b>	<b>7</b>	<b>8.6</b>	<b>9.5</b>
Barium	1,500	14,000	870,000	5,500	690,000	<b>41.7</b>	<b>131</b>	<b>38.3</b>	<b>35.1</b>
Beryllium	22	410	44,000	160	1,300	<0.5	<b>0.7</b>	<0.5	<0.5
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	<b>46300</b>	<b>6680</b>	<b>36700</b>	<b>48100</b>
Chromium	21	4100	690	230	270	<b>16.9</b>	<b>27.6</b>	<b>17.5</b>	<b>16.1</b>
Cobalt	20	12000	---	4,700	---	<b>10.1</b>	<b>16.5</b>	<b>12.5</b>	<b>9.7</b>
Copper	2,900	8,200	---	2,900	---	<b>22.8</b>	<b>29.1</b>	<b>29.2</b>	<b>34.4</b>
Iron	15,000 / 15,900	---	---	---	---	<b>19700</b>	<b>28400</b>	<b>20700</b>	<b>21900</b>
Lead	107	700	---	400	---	<b>10.9</b>	<b>18.1</b>	<b>14.1</b>	<b>23.7</b>
Magnesium	325,000	730,000	---	325,000	---	<b>21100</b>	<b>8440</b>	<b>19000</b>	<b>23300</b>
Manganese	630 / 636	4100	8,700	1,600	---	<b>351</b>	<b>506</b>	<b>432</b>	<b>302</b>
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	<b>29.8</b>	<b>42.8</b>	<b>30.5</b>	<b>29.6</b>
Potassium	---	---	---	---	---	<b>1860</b>	<b>2050</b>	<b>1600</b>	<b>1830</b>
Silver	4.4	1000	---	390	---	<b>0.2</b>	<b>0.3</b>	<0.2	<b>0.2</b>
Sodium	---	---	---	---	---	<b>1020</b>	<b>968</b>	<b>575</b>	<b>667</b>
Vanadium	550	1400	---	550	---	<b>21.5</b>	<b>32.3</b>	<b>20.8</b>	<b>20.8</b>
Zinc	5,100	61,000	---	23,000	---	<b>43.2</b>	<b>57.9</b>	<b>44.9</b>	<b>50.1</b>
<b>TCLP Metals, mg/L</b>		Class I Groundwater <sup>d/</sup>							
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Iron			5			<0.1	<0.1	<0.1	<0.1
Lead			0.0075			<0.005	<0.005	<0.005	<0.005
Manganese			0.15			<b>2.45</b>	<b>0.22</b>	<b>3.1</b>	<b>0.83</b>
Selenium			0.05			<0.010	<0.010	<b>0.01</b>	<0.010
Zinc			5			<0.1	<0.1	<0.1	<0.1
<b>SPLP Metals, mg/L</b>		Class I Groundwater <sup>d/</sup>							
Arsenic			0.05			<b>0.098</b>	<b>0.022</b>	<b>0.018</b>	<b>0.017</b>
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<b>0.008</b>	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<b>0.238</b>	<b>0.056</b>	<b>0.055</b>	<b>0.041</b>
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			<b>0.33</b>	<b>0.074</b>	<b>0.061</b>	<b>0.073</b>
Iron			5			<b>249</b>	<b>61.2</b>	<b>56.6</b>	<b>46.6</b>
Lead			0.0075			<b>0.105</b>	<b>0.036</b>	<b>0.022</b>	<b>0.03</b>
Manganese			0.15			<b>1.23</b>	<b>0.28</b>	<b>0.31</b>	<b>0.23</b>
Nickel			0.1			<b>0.3</b>	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Zinc			5			<b>0.5</b>	<b>0.2</b>	<b>0.1</b>	<b>0.1</b>

--- Refers to not applicable or value not available

<sup>a/</sup> 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.

<sup>b/</sup> Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

<sup>c/</sup> Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

<sup>d/</sup> 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.

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

LPC-663 (Page 9 of 30)  
Soils for Reuse or Disposal at CCDD Facilities in MSA County Including Chgo  
FAU 1504 (55th Street)  
Countryside, Cook County, Illinois  
BDE Sequence No.: 12403D  
PTB: 199-014/HH-2, Work Order No.: 39A

Boring ID	Soil Reference Concentrations <sup>a/</sup>	Soil Remediation Objective for Construction Workers <sup>b/</sup>		Soil Remediation Objective for Residential Exposure <sup>c/</sup>		1560V3-40-02	1560V3-40-02	1560V3-40-02	1560V3-40-03
						(0-4)	(4-8)	(8-11)	(0-4)
Sample Depth, ft						7/18/2024	7/18/2024	7/18/2024	7/18/2024
Sample Date						1560V3-40			
Excavation Area(s) ID		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route				
Parameter									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.13	8.64	8.77	8.73
PID Readings (ppm)						0.0	0.0	0.0	<b>0.3</b>
<b>VOCS, mg/kg</b>									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Benzene	0.03	2,300	2.2	12	0.8	<0.005	<0.005	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	13	20,000	58	7,800	400	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<b>0.0095</b>	<0.005	<b>0.007</b>	<0.005
Xylenes, Total	5.6	41,000	5.6	16,000	320	<0.005	<0.005	<0.005	<0.005
<b>SVOCS, mg/kg</b>									
Acenaphthene	570	120,000	---	4,700	---	<0.33	<0.33	<0.33	<0.33
Acenaphthylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Anthracene	12,000	610,000	---	23,000	---	<0.33	<0.33	<0.33	<0.33
Benzo(a)anthracene	0.9 / 10.9* / 1.8	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Benzo(a)pyrene	0.09 / 11.4* / 2.1	17	---	0.09	---	<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	<0.33
Benzo(k)fluoranthene	9	1,700	---	9	---	<0.33	<0.33	<0.33	<0.33
Benzo(g,h,i)perylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Chrysene	88	17,000	---	88	---	<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
Dibenzofuran	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Fluorene	560	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Indeno(1,2,3-cd)pyrene	0.9 / 5.77* / 1.6	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33
<b>Total Metals, mg/kg</b>									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	<b>8.2</b>	<b>4.7</b>	<b>4.8</b>	<b>5.1</b>
Barium	1,500	14,000	870,000	5,500	690,000	<b>104</b>	<b>65.1</b>	<b>42.6</b>	<b>67.8</b>
Beryllium	22	410	44,000	160	1,300	<b>0.8</b>	<b>0.7</b>	<0.5	<b>0.6</b>
Cadmium	5.2	200	59,000	78	1,800	<b>0.5</b>	<b>0.5</b>	<0.5	<0.5
Calcium	---	---	---	---	---	<b>18200</b>	<b>37600</b>	<b>90600</b>	<b>19000</b>
Chromium	21	4100	690	230	270	<b>21.8</b>	<b>20.2</b>	<b>10.4</b>	<b>20.1</b>
Cobalt	20	12000	---	4,700	---	<b>11.5</b>	<b>10</b>	<b>15.8</b>	<b>13</b>
Copper	2,900	8,200	---	2,900	---	<b>25.5</b>	<b>27.4</b>	<b>11.7</b>	<b>24.3</b>
Iron	15,000 / 15,900	---	---	---	---	<b>25700</b>	<b>20200</b>	<b>11500</b>	<b>21000</b>
Lead	107	700	---	400	---	<b>24.3</b>	<b>20.8</b>	<b>8.6</b>	<b>14.6</b>
Magnesium	325,000	730,000	---	325,000	---	<b>9920</b>	<b>17600</b>	<b>54400</b>	<b>10200</b>
Manganese	630 / 636	4100	8,700	1,600	---	<b>364</b>	<b>344</b>	<b>355</b>	<b>489</b>
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	<b>30.1</b>	<b>28.8</b>	<b>17.6</b>	<b>30.8</b>
Potassium	---	---	---	---	---	<b>2590</b>	<b>2080</b>	<b>1490</b>	<b>1800</b>
Silver	4.4	1000	---	390	---	<b>0.3</b>	<b>0.2</b>	<0.2	<0.2
Sodium	---	---	---	---	---	<b>1190</b>	<b>1530</b>	<b>681</b>	<b>1400</b>
Vanadium	550	1400	---	550	---	<b>31.9</b>	<b>27.5</b>	<b>13.5</b>	<b>27</b>
Zinc	5,100	61,000	---	23,000	---	<b>54.5</b>	<b>53.1</b>	<b>25.3</b>	<b>51</b>
<b>TCLP Metals, mg/L</b>			Class I Groundwater <sup>d/</sup>						
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Iron			5			<0.1	<b>0.2</b>	<0.1	<0.1
Lead			0.0075			<0.005	<0.005	<0.005	<0.005
Manganese			0.15			<b>0.93</b>	<b>5.96</b>	<b>3.64</b>	<b>2.25</b>
Selenium			0.05			<0.010	<b>0.011</b>	<b>0.012</b>	<b>0.011</b>
Zinc			5			<0.1	<0.1	<0.1	<0.1
<b>SPLP Metals, mg/L</b>			Class I Groundwater <sup>d/</sup>						
Arsenic			0.05			<b>0.023</b>	<b>0.039</b>	<b>0.039</b>	<b>0.024</b>
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<b>0.075</b>	<b>0.092</b>	<b>0.098</b>	<b>0.071</b>
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			<b>0.078</b>	<b>0.115</b>	<b>0.106</b>	<b>0.081</b>
Iron			5			<b>81.9</b>	<b>98.5</b>	<b>98.4</b>	<b>70</b>
Lead			0.0075			<b>0.047</b>	<b>0.049</b>	<b>0.049</b>	<b>0.035</b>
Manganese			0.15			<b>0.51</b>	<b>1.21</b>	<b>0.49</b>	<b>0.39</b>
Nickel			0.1			<0.1	<b>0.1</b>	<b>0.1</b>	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Zinc			5			<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>

--- Refers to not applicable or value not available

<sup>a/</sup> 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.

<sup>b/</sup> Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

<sup>c/</sup> Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

<sup>d/</sup> 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.

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

Soils for Reuse or Disposal at CCDD Facilities in MSA County Including Chgo

FAU 1504 (55th Street)

Countryside, Cook County, Illinois

BDE Sequence No.: 12403D

PTB: 199-014/HH-2, Work Order No.: 39A

Boring ID	Soil Reference Concentrations <sup>a/</sup>	Soil Remediation Objective for Construction Workers <sup>b/</sup>		Soil Remediation Objective for Residential Exposure <sup>c/</sup>		1560V3-40-03	1560V3-40-03	1560V3-40-04	1560V3-40-04
						(4-8)	(8-11)	(0-4)	(4-8)
Sample Depth, ft	Sample Date					7/18/2024	7/18/2024	7/18/2024	7/18/2024
Excavation Area(s) ID		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	1560V3-40			
<b>Parameter</b>									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.63	8.36	8.82	8.58
PID Readings (ppm)						<b>0.3</b>	0.0	0.0	<b>0.2</b>
<b>VOCS, mg/kg</b>									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Benzene	0.03	2,300	2.2	12	0.8	<0.005	<0.005	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<b>0.0053</b>	<0.005	<0.005	<0.005
Ethylbenzene	13	20,000	58	7,800	400	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005
Xylenes, Total	5.6	41,000	5.6	16,000	320	<0.005	<0.005	<0.005	<0.005
<b>SVOCS, mg/kg</b>									
Acenaphthene	570	120,000	---	4,700	---	<0.33	<0.33	<0.33	<0.33
Acenaphthylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Anthracene	12,000	610,000	---	23,000	---	<0.33	<0.33	<0.33	<0.33
Benzo(a)anthracene	0.9 / 10.9* / 1.8	170	---	0.9	---	<b>0.401</b>	<0.33	<0.33	<0.33
Benzo(a)pyrene	0.09 / 11.4* / 2.1	17	---	0.09	---	<b>0.426</b>	<0.09	<0.09	<0.09
Benzo(b)fluoranthene	0.9 / 13.1* / 2.1	170	---	0.9	---	<b>0.633</b>	<0.33	<0.33	<0.33
Benzo(k)fluoranthene	9	1,700	---	9	---	<0.33	<0.33	<0.33	<0.33
Benzo(g,h,i)perylene	---	---	---	---	---	<b>0.341</b>	<0.33	<0.33	<0.33
Chrysene	88	17,000	---	88	---	<b>0.489</b>	<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
Dibenzofuran	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Fluoranthene	3,100	82,000	---	3,100	---	<b>0.9</b>	<0.33	<0.33	<0.33
Fluorene	560	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Indeno(1,2,3-cd)pyrene	0.9 / 5.77* / 1.6	170	---	0.9	---	<b>0.357</b>	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<b>0.813</b>	<0.33	<0.33	<0.33
<b>Total Metals, mg/kg</b>									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	<b>7.3</b>	<b>4.6</b>	<b>7.8</b>	<b>6.2</b>
Barium	1,500	14,000	870,000	5,500	690,000	<b>47.7</b>	<b>29.6</b>	<b>62.5</b>	<b>62.8</b>
Beryllium	22	410	44,000	160	1,300	<b>0.6</b>	<b>0.6</b>	<b>0.6</b>	<b>0.6</b>
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	<b>34800</b>	<b>52300</b>	<b>47900</b>	<b>36400</b>
Chromium	21	4100	690	230	270	<b>19</b>	<b>19.8</b>	<b>16.4</b>	<b>17.5</b>
Cobalt	20	12000	---	4,700	---	<b>10.6</b>	<b>11.3</b>	<b>8.8</b>	<b>13.1</b>
Copper	2,900	8,200	---	2,900	---	<b>32.7</b>	<b>24.1</b>	<b>30.5</b>	<b>25.3</b>
Iron	15,000 / 15,900	---	---	---	---	<b>23100</b>	<b>19600</b>	<b>21000</b>	<b>19900</b>
Lead	107	700	---	400	---	<b>16.5</b>	<b>11.8</b>	<b>17</b>	<b>15.8</b>
Magnesium	325,000	730,000	---	325,000	---	<b>23100</b>	<b>24700</b>	<b>26500</b>	<b>16900</b>
Manganese	630 / 636	4100	8,700	1,600	---	<b>313</b>	<b>342</b>	<b>317</b>	<b>622</b>
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	<b>31.7</b>	<b>31.9</b>	<b>25.2</b>	<b>30.8</b>
Potassium	---	---	---	---	---	<b>1950</b>	<b>2630</b>	<b>1550</b>	<b>1700</b>
Silver	4.4	1000	---	390	---	<b>0.3</b>	<b>0.2</b>	<0.2	<0.2
Sodium	---	---	---	---	---	<b>665</b>	<b>895</b>	<b>1090</b>	<b>756</b>
Vanadium	550	1400	---	550	---	<b>24.4</b>	<b>24.6</b>	<b>24.1</b>	<b>23.5</b>
Zinc	5,100	61,000	---	23,000	---	<b>49.5</b>	<b>46.3</b>	<b>49.6</b>	<b>44.9</b>
<b>TCLP Metals, mg/L</b>		Class I Groundwater <sup>d/</sup>							
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Iron			5			<0.1	<0.1	<0.1	<0.1
Lead			0.0075			<0.005	<0.005	<0.005	<0.005
Manganese			0.15			<b>0.11</b>	<b>0.97</b>	<b>0.38</b>	<b>0.12</b>
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Zinc			5			<0.1	<0.1	<0.1	<0.1
<b>SPLP Metals, mg/L</b>		Class I Groundwater <sup>d/</sup>							
Arsenic			0.05			<b>0.027</b>	<b>0.017</b>	<b>0.015</b>	<b>0.017</b>
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<b>0.074</b>	<b>0.049</b>	<b>0.042</b>	<b>0.042</b>
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			<b>0.098</b>	<b>0.047</b>	<b>0.055</b>	<b>0.061</b>
Iron			5			<b>80.5</b>	<b>46.9</b>	<b>44.4</b>	<b>47.6</b>
Lead			0.0075			<b>0.041</b>	<b>0.032</b>	<b>0.018</b>	<b>0.022</b>
Manganese			0.15			<b>0.29</b>	<b>0.23</b>	<b>0.21</b>	<b>0.19</b>
Nickel			0.1			<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Zinc			5			<b>0.2</b>	<b>0.1</b>	<0.1	<b>0.1</b>

--- Refers to not applicable or value not available

<sup>a/</sup> 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.

<sup>b/</sup> Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

<sup>c/</sup> Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

<sup>d/</sup> 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.

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



Soils for Reuse or Disposal at CCDD Facilities in MSA County Including Chgo

FAU 1504 (55th Street)

Countryside, Cook County, Illinois

BDE Sequence No.: 12403D

PTB: 199-014/HH-2, Work Order No.: 39A

Boring ID	Soil Reference Concentrations <sup>a/</sup>	Soil Remediation Objective for Construction Workers <sup>b/</sup>		Soil Remediation Objective for Residential Exposure <sup>c/</sup>		DUP-23 (1560V3-40-04)	1560V3-40-04	1560V3-40-05	1560V3-40-05
						(4-8)	(8-11)	(0-4)	(4-8)
Sample Depth, ft	Sample Date					7/18/2024	7/18/2024	7/18/2024	7/18/2024
Excavation Area(s) ID		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	1560V3-40			
<b>Parameter</b>									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.73	8.32	8.64	8.02
PID Readings (ppm)						0.2	0.0	0.0	0.0
<b>VOCS, mg/kg</b>									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Benzene	0.03	2,300	2.2	12	0.8	<0.005	<0.005	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	13	20,000	58	7,800	400	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005
Xylenes, Total	5.6	41,000	5.6	16,000	320	<0.005	<0.005	<0.005	<0.005
<b>SVOCS, mg/kg</b>									
Acenaphthene	570	120,000	---	4,700	---	<0.33	<0.33	<0.33	<0.33
Acenaphthylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Anthracene	12,000	610,000	---	23,000	---	<0.33	<0.33	<0.33	<0.33
Benzo(a)anthracene	0.9 / 10.9* / 1.8	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Benzo(a)pyrene	0.09 / 11.4* / 2.1	17	---	0.09	---	<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	<0.33
Benzo(k)fluoranthene	9	1,700	---	9	---	<0.33	<0.33	<0.33	<0.33
Benzo(g,h,i)perylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Chrysene	88	17,000	---	88	---	<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
Dibenzofuran	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Fluorene	560	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Indeno(1,2,3-cd)pyrene	0.9 / 5.77* / 1.6	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33
<b>Total Metals, mg/kg</b>									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	8.2	4.5	8.7	8.9
Barium	1,500	14,000	870,000	5,500	690,000	53.4	39.1	77.2	61.7
Beryllium	22	410	44,000	160	1,300	0.6	<0.5	<0.5	0.6
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	35500	48700	27200	29400
Chromium	21	4100	690	230	270	17.5	18.9	17.9	19
Cobalt	20	12000	---	4,700	---	8	8.4	11.4	10
Copper	2,900	8,200	---	2,900	---	30.2	23.8	36.9	28.3
Iron	15,000 / 15,900	---	---	---	---	21400	19900	22400	24300
Lead	107	700	---	400	---	14.2	10.7	29	15.5
Magnesium	325,000	730,000	---	325,000	---	17600	22200	15600	14600
Manganese	630 / 636	4100	8,700	1,600	---	283	248	379	252
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	27.1	27.4	31.3	30.1
Potassium	---	---	---	---	---	1830	2400	1920	2010
Silver	4.4	1000	---	390	---	0.2	<0.2	<0.2	0.2
Sodium	---	---	---	---	---	748	397	772	735
Vanadium	550	1400	---	550	---	24	23.4	24.7	27.5
Zinc	5,100	61,000	---	23,000	---	48.7	41.5	64.8	53.4
<b>TCLP Metals, mg/L</b>		Class I Groundwater <sup>d/</sup>							
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Iron			5			<0.1	<0.1	<0.1	<0.1
Lead			0.0075			<0.005	<0.005	<0.005	<0.005
Manganese			0.15			2.12	3.46	0.63	0.13
Selenium			0.05			<0.010	0.012	<0.010	<0.010
Zinc			5			<0.1	<0.1	<0.1	<0.1
<b>SPLP Metals, mg/L</b>		Class I Groundwater <sup>d/</sup>							
Arsenic			0.05			0.081	<0.010	0.02	0.031
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			0.007	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			0.181	0.017	0.041	0.072
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			0.25	0.014	0.086	0.084
Iron			5			195	11.9	42.9	100
Lead			0.0075			0.102	0.005	0.026	0.054
Manganese			0.15			0.82	<0.10	0.19	0.27
Nickel			0.1			0.2	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Zinc			5			0.4	<0.1	0.1	0.2

--- Refers to not applicable or value not available

<sup>a/</sup> 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.

<sup>b/</sup> Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

<sup>c/</sup> Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

<sup>d/</sup> 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.

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

Soils for Reuse or Disposal at CCDD Facilities in MSA County Including Chgo

FAU 1504 (55th Street)

Countryside, Cook County, Illinois

BDE Sequence No.: 12403D

PTB: 199-014/HH-2, Work Order No.: 39A

Boring ID	Soil Reference Concentrations <sup>a/</sup>	Soil Remediation Objective for Construction Workers <sup>b/</sup>		Soil Remediation Objective for Residential Exposure <sup>c/</sup>		1560V3-40-05	1560V3-43-03	1560V3-43-03	1560V3-43-04
						(8-11)	(0-4)	(4-8.5)	(0-4)
Sample Depth, ft						7/18/2024	7/10/2024	7/10/2024	7/10/2024
Sample Date									
Excavation Area(s) ID		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	1560V3-40	1560V3-43		
<b>Parameter</b>									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.24	8.42	8.31	7.91
PID Readings (ppm)						<b>0.2</b>	0.0	0.0	0.0
<b>VOCS, mg/kg</b>									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Benzene	0.03	2,300	2.2	12	0.8	<0.005	<0.005	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	13	20,000	58	7,800	400	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005
Xylenes, Total	5.6	41,000	5.6	16,000	320	<0.005	<0.005	<0.005	<0.005
<b>SVOCS, mg/kg</b>									
Acenaphthene	570	120,000	---	4,700	---	<0.33	<0.33	<0.33	<0.33
Acenaphthylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Anthracene	12,000	610,000	---	23,000	---	<0.33	<0.33	<0.33	<0.33
Benzo(a)anthracene	0.9 / 10.9* / 1.8	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Benzo(a)pyrene	0.09 / 11.4* / 2.1	17	---	0.09	---	<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	<0.33
Benzo(k)fluoranthene	9	1,700	---	9	---	<0.33	<0.33	<0.33	<0.33
Benzo(g,h,i)perylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Chrysene	88	17,000	---	88	---	<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
Dibenzofuran	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Fluorene	560	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Indeno(1,2,3-cd)pyrene	0.9 / 5.77* / 1.6	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33
<b>Total Metals, mg/kg</b>									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	<b>8.5</b>	<b>9.6</b>	<b>9.7</b>	<b>5.8</b>
Barium	1,500	14,000	870,000	5,500	690,000	<b>34.3</b>	<b>120</b>	<b>60</b>	<b>161</b>
Beryllium	22	410	44,000	160	1,300	<0.5	<b>0.9</b>	<b>0.6</b>	<b>0.8</b>
Cadmium	5.2	200	59,000	78	1,800	<0.5	<b>0.5</b>	<b>0.6</b>	<b>0.9</b>
Calcium	---	---	---	---	---	<b>39200</b>	<b>4060</b>	<b>48300</b>	<b>17800</b>
Chromium	21	4100	690	230	270	<b>16.2</b>	<b>21.5</b>	<b>20.2</b>	<b>20.4</b>
Cobalt	20	12000	---	4,700	---	<b>7.7</b>	<b>14.2</b>	<b>15</b>	<b>7.5</b>
Copper	2,900	8,200	---	2,900	---	<b>41.7</b>	<b>28.5</b>	<b>25.6</b>	<b>26.7</b>
Iron	15,000 / 15,900	---	---	---	---	<b>20400</b>	<b>26700</b>	<b>25600</b>	<b>20100</b>
Lead	107	700	---	400	---	<b>23.5</b>	<b>16.5</b>	<b>12.9</b>	<b>96</b>
Magnesium	325,000	730,000	---	325,000	---	<b>24100</b>	<b>4430</b>	<b>22500</b>	<b>10500</b>
Manganese	630 / 636	4100	8,700	1,600	---	<b>280</b>	<b>551</b>	<b>356</b>	<b>340</b>
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<b>0.1</b>
Nickel	100	4100	440,000	1,600	13,000	<b>27.7</b>	<b>32.6</b>	<b>37.9</b>	<b>21.6</b>
Potassium	---	---	---	---	---	<b>1590</b>	<b>1320</b>	<b>2230</b>	<b>1770</b>
Silver	4.4	1000	---	390	---	<0.2	<b>0.3</b>	<b>0.3</b>	<b>0.3</b>
Sodium	---	---	---	---	---	<b>519</b>	<b>988</b>	<b>449</b>	<b>719</b>
Vanadium	550	1400	---	550	---	<b>21.3</b>	<b>35.1</b>	<b>25.3</b>	<b>29.7</b>
Zinc	5,100	61,000	---	23,000	---	<b>48.9</b>	<b>52.5</b>	<b>49.8</b>	<b>83.7</b>
<b>TCLP Metals, mg/L</b>			Class I Groundwater <sup>d/</sup>						
Arsenic				0.05		<0.010	<0.010	<0.010	<0.010
Barium				2		<1.0	<1.0	<1.0	<1.0
Cadmium				0.005		<0.005	<0.005	<0.005	<0.005
Iron				5		<0.1	<0.1	<0.1	<0.1
Lead				0.0075		<0.005	<0.005	<0.005	<0.005
Manganese				0.15		<b>1.01</b>	<0.10	<b>2.4</b>	<0.10
Selenium				0.05		<0.010	<0.010	<0.010	<0.010
Zinc				5		<0.1	<0.1	<0.1	<0.1
<b>SPLP Metals, mg/L</b>			Class I Groundwater <sup>d/</sup>						
Arsenic				0.05		<0.010	<b>0.02</b>	<b>0.013</b>	<0.010
Barium				2		<1.0	<1.0	<1.0	<1.0
Beryllium				0.004		<0.004	<b>0.004</b>	<0.004	<0.004
Cadmium				0.005		<0.005	<0.005	<0.005	<0.005
Chromium				0.1		<0.005	<b>0.121</b>	<b>0.046</b>	<b>0.037</b>
Cobalt				1		<0.1	<0.1	<0.1	<0.1
Copper				0.65		<0.005	<b>0.138</b>	<b>0.043</b>	<b>0.033</b>
Iron				5		<b>2.9</b>	<b>123</b>	<b>47</b>	<b>29.6</b>
Lead				0.0075		<0.005	<b>0.05</b>	<b>0.021</b>	<b>0.07</b>
Manganese				0.15		<0.10	<b>0.66</b>	<b>0.38</b>	<b>0.18</b>
Nickel				0.1		<0.1	<b>0.1</b>	<0.1	<0.1
Selenium				0.05		<0.010	<0.010	<0.010	<0.010
Zinc				5		<0.1	<b>0.3</b>	<0.1	<b>0.2</b>

--- Refers to not applicable or value not available

<sup>a/</sup> 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.

<sup>b/</sup> Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

<sup>c/</sup> Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

<sup>d/</sup> 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.

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

Soils for Reuse or Disposal at CCDD Facilities in MSA County Including Chgo

FAU 1504 (55th Street)

Countryside, Cook County, Illinois

BDE Sequence No.: 12403D

PTB: 199-014/HH-2, Work Order No.: 39A

Boring ID	Soil Reference Concentrations <sup>a/</sup>	Soil Remediation Objective for Construction Workers <sup>b/</sup>		Soil Remediation Objective for Residential Exposure <sup>c/</sup>		1560V3-43-04	1560V3-44-03	1560V3-44-03	1560V3-44-04
						(4-8.5)	(0-5)	(5-10)	(0-5)
Sample Depth, ft	Sample Date					7/10/2024	7/12/2024	7/12/2024	7/12/2024
Excavation Area(s) ID		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	1560V3-43			
<b>Parameter</b>									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.49	7.9	8.26	8.93
PID Readings (ppm)						0.0	0.0	0.0	0.0
<b>VOCs, mg/kg</b>									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Benzene	0.03	2,300	2.2	12	0.8	<0.005	<0.005	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	13	20,000	58	7,800	400	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005
Xylenes, Total	5.6	41,000	5.6	16,000	320	<0.005	<0.005	<0.005	<0.005
<b>SVOCS, mg/kg</b>									
Acenaphthene	570	120,000	---	4,700	---	<0.33	<0.33	<0.33	<0.33
Acenaphthylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Anthracene	12,000	610,000	---	23,000	---	<0.33	<0.33	<0.33	<0.33
Benzo(a)anthracene	0.9 / 10.9* / 1.8	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Benzo(a)pyrene	0.09 / 11.4* / 2.1	17	---	0.09	---	<0.09	<0.09	<0.09	<b>0.146</b>
Benzo(b)fluoranthene	0.9 / 13.1* / 2.1	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Benzo(k)fluoranthene	9	1,700	---	9	---	<0.33	<0.33	<0.33	<0.33
Benzo(g,h,i)perylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Chrysene	88	17,000	---	88	---	<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
Dibenzofuran	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Fluorene	560	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Indeno(1,2,3-cd)pyrene	0.9 / 5.77* / 1.6	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33
<b>Total Metals, mg/kg</b>									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	<b>7.3</b>	<b>5.1</b>	<b>12.3</b>	<b>7.7</b>
Barium	1,500	14,000	870,000	5,500	690,000	<b>50.5</b>	<b>113</b>	<b>58.5</b>	<b>70.4</b>
Beryllium	22	410	44,000	160	1,300	<b>0.5</b>	<b>0.7</b>	<b>0.6</b>	<b>0.5</b>
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<b>0.6</b>	<b>0.9</b>
Calcium	---	---	---	---	---	<b>51000</b>	<b>5410</b>	<b>52900</b>	<b>43000</b>
Chromium	21	4100	690	230	270	<b>19.9</b>	<b>19.5</b>	<b>19.1</b>	<b>17.7</b>
Cobalt	20	12000	---	4,700	---	<b>10.5</b>	<b>10.3</b>	<b>53</b>	<b>13.4</b>
Copper	2,900	8,200	---	2,900	---	<b>25.5</b>	<b>19.1</b>	<b>25.9</b>	<b>29.7</b>
Iron	15,000 / 15,900	---	---	---	---	<b>23400</b>	<b>20700</b>	<b>24300</b>	<b>20900</b>
Lead	107	700	---	400	---	<b>13.3</b>	<b>14.1</b>	<b>12.7</b>	<b>26</b>
Magnesium	325,000	730,000	---	325,000	---	<b>22900</b>	<b>4320</b>	<b>24000</b>	<b>20500</b>
Manganese	630 / 636	4100	8,700	1,600	---	<b>324</b>	<b>310</b>	<b>684</b>	<b>491</b>
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	<b>29.6</b>	<b>23.3</b>	<b>44.1</b>	<b>35.9</b>
Potassium	---	---	---	---	---	<b>2070</b>	<b>1720</b>	<b>2340</b>	<b>2060</b>
Silver	4.4	1000	---	390	---	<b>0.4</b>	<b>0.3</b>	<b>0.3</b>	<b>0.2</b>
Sodium	---	---	---	---	---	<b>576</b>	<b>140</b>	<b>239</b>	<b>1540</b>
Vanadium	550	1400	---	550	---	<b>25.2</b>	<b>28.9</b>	<b>24.9</b>	<b>22.2</b>
Zinc	5,100	61,000	---	23,000	---	<b>48.5</b>	<b>50.5</b>	<b>50.5</b>	<b>51.6</b>
<b>TCLP Metals, mg/L</b>		Class I Groundwater <sup>d/</sup>							
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Cadmium			0.005			<0.005	<0.005	<0.005	<b>0.007</b>
Iron			5			<b>0.2</b>	<0.1	<0.1	<0.1
Lead			0.0075			<0.005	<0.005	<0.005	<b>0.088</b>
Manganese			0.15			<b>4.01</b>	<0.10	<b>0.69</b>	<b>3.95</b>
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Zinc			5			<0.1	<0.1	<0.1	<b>0.1</b>
<b>SPLP Metals, mg/L</b>		Class I Groundwater <sup>d/</sup>							
Arsenic			0.05			<b>0.013</b>	<0.010	<0.010	<b>0.032</b>
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<b>0.048</b>	<b>0.031</b>	<b>0.016</b>	<b>0.078</b>
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			<b>0.049</b>	<b>0.019</b>	<b>0.023</b>	<b>0.092</b>
Iron			5			<b>47.2</b>	<b>24.7</b>	<b>17.8</b>	<b>85.4</b>
Lead			0.0075			<b>0.021</b>	<b>0.014</b>	<b>0.01</b>	<b>0.261</b>
Manganese			0.15			<b>0.31</b>	<b>0.11</b>	<0.10	<b>0.48</b>
Nickel			0.1			<0.1	<0.1	<0.1	<b>0.1</b>
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Zinc			5			<0.1	<0.1	<0.1	<b>0.3</b>

--- Refers to not applicable or value not available

<sup>a/</sup> 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.

<sup>b/</sup> Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

<sup>c/</sup> Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

<sup>d/</sup> 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.

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

LPC-663 (Page 14 of 30)  
 Soils for Reuse or Disposal at CCDD Facilities in MSA County Including Chgo  
 FAU 1504 (55th Street)  
 Countryside, Cook County, Illinois  
 BDE Sequence No.: 12403D  
 PTB: 199-014/HH-2, Work Order No.: 39A

Boring ID	Soil Reference Concentrations <sup>a/</sup>	Soil Remediation Objective for Construction Workers <sup>b/</sup>		Soil Remediation Objective for Residential Exposure <sup>c/</sup>		1560V3-44-04	1560V3-46-01	1560V3-46-01	1560V3-47-01
						(5-10)	(0-3)	(3-6)	(0-5)
Sample Depth, ft						7/12/2024	7/12/2024	7/12/2024	7/17/2024
Sample Date									
Excavation Area(s) ID		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	1560V3-43	1560V3-46		1560V3-47
<b>Parameter</b>									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.33	7.87	8.6	8.49
PID Readings (ppm)						0.0	0.0	0.0	1.0
<b>VOCs, mg/kg</b>									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Benzene	0.03	2,300	2.2	12	0.8	<0.005	<0.005	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	13	20,000	58	7,800	400	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005
Xylenes, Total	5.6	41,000	5.6	16,000	320	<0.005	<0.005	<0.005	<0.005
<b>SVOCs, mg/kg</b>									
Acenaphthene	570	120,000	---	4,700	---	<0.33	<0.33	<0.33	<0.33
Acenaphthylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Anthracene	12,000	610,000	---	23,000	---	<0.33	<0.33	<0.33	<b>0.502</b>
Benzo(a)anthracene	0.9 / 10.9* / 1.8	170	---	0.9	---	<0.33	<0.33	<0.33	<b>1.47</b>
Benzo(a)pyrene	0.09 / 11.4* / 2.1	17	---	0.09	---	<0.09	<b>0.267</b>	<0.09	<b>1.16</b>
Benzo(b)fluoranthene	0.9 / 13.1* / 2.1	170	---	0.9	---	<0.33	<b>0.402</b>	<0.33	<b>1.68</b>
Benzo(k)fluoranthene	9	1,700	---	9	---	<0.33	<0.33	<0.33	<b>0.573</b>
Benzo(g,h,i)perylene	---	---	---	---	---	<0.33	<0.33	<0.33	<b>0.788</b>
Chrysene	88	17,000	---	88	---	<0.33	<0.33	<0.33	<b>1.52</b>
Dibenz(a,h)anthracene	0.09 / 1.03* / 0.42	17	---	0.09	---	<0.09	<0.09	<0.09	<b>0.208</b>
Dibenzofuran	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<b>0.507</b>	<0.33	<b>4.04</b>
Fluorene	560	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Indeno(1,2,3-cd)pyrene	0.9 / 5.77* / 1.6	170	---	0.9	---	<0.33	<0.33	<0.33	<b>0.886</b>
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<b>2.24</b>
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<b>0.483</b>	<0.33	<b>2.86</b>
<b>Total Metals, mg/kg</b>									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	<b>12</b>	<b>4.6</b>	<b>7.2</b>	<b>8.5</b>
Barium	1,500	14,000	870,000	5,500	690,000	<b>37.5</b>	<b>91.5</b>	<b>35.7</b>	<b>81.5</b>
Beryllium	22	410	44,000	160	1,300	<0.5	<0.5	<b>0.5</b>	<b>0.6</b>
Cadmium	5.2	200	59,000	78	1,800	<0.5	<b>1.5</b>	<b>0.6</b>	<0.5
Calcium	---	---	---	---	---	<b>37800</b>	<b>28300</b>	<b>42900</b>	<b>26100</b>
Chromium	21	4100	690	230	270	<b>12.7</b>	<b>34.1</b>	<b>17.2</b>	<b>21.6</b>
Cobalt	20	12000	---	4,700	---	<b>8.3</b>	<b>6.3</b>	<b>10.9</b>	<b>14</b>
Copper	2,900	8,200	---	2,900	---	<b>33.5</b>	<b>50.6</b>	<b>26.2</b>	<b>31.6</b>
Iron	15,000 / 15,900	---	---	---	---	<b>21000</b>	<b>15700</b>	<b>20300</b>	<b>23400</b>
Lead	107	700	---	400	---	<b>15.6</b>	<b>246</b>	<b>11.7</b>	<b>33.5</b>
Magnesium	325,000	730,000	---	325,000	---	<b>21400</b>	<b>16600</b>	<b>20400</b>	<b>17600</b>
Manganese	630 / 636	4100	8,700	1,600	---	<b>256</b>	<b>405</b>	<b>372</b>	<b>501</b>
Mercury	0.89	61	0.1	23	10	<0.05	<b>0.05</b>	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	<b>26.9</b>	<b>17.8</b>	<b>29.6</b>	<b>33.5</b>
Potassium	---	---	---	---	---	<b>1440</b>	<b>1010</b>	<b>1970</b>	<b>1910</b>
Silver	4.4	1000	---	390	---	<0.2	<0.2	<b>0.3</b>	<0.2
Sodium	---	---	---	---	---	<b>1240</b>	<b>1150</b>	<b>891</b>	<b>554</b>
Vanadium	550	1400	---	550	---	<b>19.2</b>	<b>22</b>	<b>21.9</b>	<b>28.6</b>
Zinc	5,100	61,000	---	23,000	---	<b>39.7</b>	<b>173</b>	<b>45.9</b>	<b>62.2</b>
<b>TCLP Metals, mg/L</b>			Class I Groundwater <sup>d/</sup>						
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Iron			5			<0.1	<b>0.4</b>	<0.1	<0.1
Lead			0.0075			<0.005	<0.005	<0.005	<0.005
Manganese			0.15			<b>1.76</b>	<b>0.84</b>	<b>5.39</b>	<b>0.58</b>
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Zinc			5			<0.1	<0.1	<0.1	<0.1
<b>SPLP Metals, mg/L</b>			Class I Groundwater <sup>d/</sup>						
Arsenic			0.05			<0.010	<b>0.012</b>	<b>0.02</b>	<b>0.013</b>
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<b>0.01</b>	<b>0.07</b>	<b>0.057</b>	<b>0.043</b>
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			<b>0.013</b>	<b>0.082</b>	<b>0.063</b>	<b>0.044</b>
Iron			5			<b>10.2</b>	<b>59</b>	<b>60.8</b>	<b>42.8</b>
Lead			0.0075			<b>0.006</b>	<b>0.289</b>	<b>0.032</b>	<b>0.024</b>
Manganese			0.15			<0.10	<b>0.54</b>	<b>0.53</b>	<b>0.2</b>
Nickel			0.1			<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Zinc			5			<0.1	<b>0.4</b>	<b>0.1</b>	<0.1

--- Refers to not applicable or value not available

<sup>a/</sup> 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.

<sup>b/</sup> Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

<sup>c/</sup> Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

<sup>d/</sup> 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.

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

LPC-663 (Page 15 of 30)  
Soils for Reuse or Disposal at CCDD Facilities in MSA County Including Chgo  
FAU 1504 (55th Street)  
Countryside, Cook County, Illinois  
BDE Sequence No.: 12403D  
PTB: 199-014/HH-2, Work Order No.: 39A

Boring ID	Soil Reference Concentrations <sup>a/</sup>	Soil Remediation Objective for Construction Workers <sup>b/</sup>		Soil Remediation Objective for Residential Exposure <sup>c/</sup>		1560V3-47-01	1560V3-47-03	1560V3-47-03	1560V3-48-01
						(5-10)	(0-5)	(5-10)	(0-5)
Sample Depth, ft						7/17/2024	7/17/2024	7/17/2024	7/10/2024
Sample Date									
Excavation Area(s) ID		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	1560V3-47			1560V3-48
Parameter									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.72	8.82	8.57	7.68
PID Readings (ppm)						0.0	0.0	0.9	0.0
<b>VOCS, mg/kg</b>									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Benzene	0.03	2,300	2.2	12	0.8	<0.005	<0.005	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	13	20,000	58	7,800	400	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005
Xylenes, Total	5.6	41,000	5.6	16,000	320	<0.005	<0.005	<0.005	<0.005
<b>SVOCS, mg/kg</b>									
Acenaphthene	570	120,000	---	4,700	---	<0.33	<0.33	<0.33	<0.33
Acenaphthylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Anthracene	12,000	610,000	---	23,000	---	<0.33	<0.33	<0.33	<0.33
Benzo(a)anthracene	0.9 / 10.9* / 1.8	170	---	0.9	---	<0.33	<b>0.926</b>	<0.33	<0.33
Benzo(a)pyrene	0.09 / 11.4* / 2.1	17	---	0.09	---	<0.09	<b>0.795</b>	<0.09	<b>0.149</b>
Benzo(b)fluoranthene	0.9 / 13.1* / 2.1	170	---	0.9	---	<0.33	<b>1.12</b>	<0.33	<0.33
Benzo(k)fluoranthene	9	1,700	---	9	---	<0.33	<b>0.428</b>	<0.33	<0.33
Benzo(g,h,i)perylene	---	---	---	---	---	<0.33	<b>0.591</b>	<0.33	<0.33
Chrysene	88	17,000	---	88	---	<0.33	<b>0.962</b>	<0.33	<0.33
Dibenz(a,h)anthracene	0.09 / 1.03* / 0.42	17	---	0.09	---	<0.09	<b>0.152</b>	<0.09	<0.09
Dibenzofuran	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<b>2.21</b>	<0.33	<b>0.367</b>
Fluorene	560	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Indeno(1,2,3-cd)pyrene	0.9 / 5.77* / 1.6	170	---	0.9	---	<0.33	<b>0.623</b>	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<b>1.22</b>	<0.33	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<b>1.61</b>	<0.33	<b>0.347</b>
<b>Total Metals, mg/kg</b>									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	<b>5.1</b>	<b>5</b>	<b>10.9</b>	<b>4.9</b>
Barium	1,500	14,000	870,000	5,500	690,000	<b>64.4</b>	<b>60.7</b>	<b>24.1</b>	<b>51.5</b>
Beryllium	22	410	44,000	160	1,300	<b>0.6</b>	<0.5	<0.5	<b>0.5</b>
Cadmium	5.2	200	59,000	78	1,800	<0.5	<b>1</b>	<0.5	<0.5
Calcium	---	---	---	---	---	<b>50700</b>	<b>82800</b>	<b>41700</b>	<b>42400</b>
Chromium	21	4100	690	230	270	<b>19.2</b>	<b>23.2</b>	<b>11.1</b>	<b>17.4</b>
Cobalt	20	12000	---	4,700	---	<b>9.9</b>	<b>4.5</b>	<b>14.4</b>	<b>10</b>
Copper	2,900	8,200	---	2,900	---	<b>23.2</b>	<b>36.8</b>	<b>41</b>	<b>24.6</b>
Iron	15,000 / 15,900	---	---	---	---	<b>20400</b>	<b>13500</b>	<b>19700</b>	<b>19500</b>
Lead	107	700	---	400	---	<b>10.5</b>	<b>251</b>	<b>17.5</b>	<b>15.8</b>
Magnesium	325,000	730,000	---	325,000	---	<b>20800</b>	<b>50000</b>	<b>26000</b>	<b>20900</b>
Manganese	630 / 636	4100	8,700	1,600	---	<b>322</b>	<b>237</b>	<b>388</b>	<b>434</b>
Mercury	0.89	61	0.1	23	10	<0.05	<b>0.06</b>	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	<b>29</b>	<b>15.5</b>	<b>31.9</b>	<b>28.2</b>
Potassium	---	---	---	---	---	<b>2170</b>	<b>1060</b>	<b>1190</b>	<b>1710</b>
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<b>0.2</b>
Sodium	---	---	---	---	---	<b>790</b>	<b>639</b>	<b>462</b>	<b>703</b>
Vanadium	550	1400	---	550	---	<b>24</b>	<b>17.2</b>	<b>15.9</b>	<b>22.2</b>
Zinc	5,100	61,000	---	23,000	---	<b>45.7</b>	<b>126</b>	<b>43.4</b>	<b>52.5</b>
<b>TCLP Metals, mg/L</b>			Class I Groundwater <sup>d/</sup>						
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Iron			5			<0.1	<0.1	<0.1	<0.1
Lead			0.0075			<0.005	<b>0.005</b>	<0.005	<0.005
Manganese			0.15			<b>2.04</b>	<b>0.69</b>	<b>1.13</b>	<b>5.41</b>
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Zinc			5			<0.1	<0.1	<0.1	<0.1
<b>SPLP Metals, mg/L</b>			Class I Groundwater <sup>d/</sup>						
Arsenic			0.05			<b>0.013</b>	<0.010	<b>0.024</b>	<b>0.035</b>
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<b>0.064</b>	<b>0.032</b>	<b>0.03</b>	<b>0.076</b>
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			<b>0.055</b>	<b>0.045</b>	<b>0.072</b>	<b>0.128</b>
Iron			5			<b>58.4</b>	<b>24</b>	<b>42.8</b>	<b>87.2</b>
Lead			0.0075			<b>0.025</b>	<b>0.149</b>	<b>0.022</b>	<b>0.072</b>
Manganese			0.15			<b>0.28</b>	<b>0.13</b>	<b>0.2</b>	<b>1</b>
Nickel			0.1			<0.1	<0.1	<0.1	<b>0.1</b>
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Zinc			5			<b>0.1</b>	<b>0.2</b>	<b>0.1</b>	<b>0.2</b>

--- Refers to not applicable or value not available

<sup>a/</sup> 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.

<sup>b/</sup> Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

<sup>c/</sup> Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

<sup>d/</sup> 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.

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

LPC-663 (Page 16 of 30)  
 Soils for Reuse or Disposal at CCDD Facilities in MSA County Including Chgo  
 FAU 1504 (55th Street)  
 Countryside, Cook County, Illinois  
 BDE Sequence No.: 12403D  
 PTB: 199-014/HH-2, Work Order No.: 39A

Boring ID	Soil Reference Concentrations <sup>a/</sup>	Soil Remediation Objective for Construction Workers <sup>b/</sup>		Soil Remediation Objective for Residential Exposure <sup>c/</sup>		1560V3-48-01	1560V3-52-02	1560V3-52-02	DUP-20 (1560V3-52-02)
						(5-9)	(0-5)	(5-10)	(5-10)
Sample Depth, ft	Sample Date					7/10/2024	7/17/2024	7/17/2024	7/17/2024
Excavation Area(s) ID		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	1560V3-48	1560V3-52-02		
<b>Parameter</b>									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	7.99	8.41	8.37	8.36
PID Readings (ppm)						0.0	0.0	0.5	0.5
<b>VOCs, mg/kg</b>									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Benzene	0.03	2,300	2.2	12	0.8	<0.005	<0.005	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	13	20,000	58	7,800	400	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005
Xylenes, Total	5.6	41,000	5.6	16,000	320	<0.005	<0.005	<0.005	<0.005
<b>SVOCS, mg/kg</b>									
Acenaphthene	570	120,000	---	4,700	---	<0.33	<0.33	<0.33	<0.33
Acenaphthylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Anthracene	12,000	610,000	---	23,000	---	<0.33	<0.33	<0.33	<0.33
Benzo(a)anthracene	0.9 / 10.9* / 1.8	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Benzo(a)pyrene	0.09 / 11.4* / 2.1	17	---	0.09	---	<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	<0.33
Benzo(k)fluoranthene	9	1,700	---	9	---	<0.33	<0.33	<0.33	<0.33
Benzo(g,h,i)perylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Chrysene	88	17,000	---	88	---	<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
Dibenzofuran	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Fluorene	560	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Indeno(1,2,3-cd)pyrene	0.9 / 5.77* / 1.6	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33
<b>Total Metals, mg/kg</b>									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	6	1.2	6.7	4.7
Barium	1,500	14,000	870,000	5,500	690,000	60.9	9.9	35.9	40.7
Beryllium	22	410	44,000	160	1,300	0.7	<0.5	<0.5	<0.5
Cadmium	5.2	200	59,000	78	1,800	0.6	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	30900	145000	50100	58700
Chromium	21	4100	690	230	270	24	4.8	17.9	20.5
Cobalt	20	12000	---	4,700	---	11.4	1.7	7	7.6
Copper	2,900	8,200	---	2,900	---	26.4	5	28.4	27.2
Iron	15,000 / 15,900	---	---	---	---	26300	3580	19900	21300
Lead	107	700	---	400	---	11.9	6	13.5	11.6
Magnesium	325,000	730,000	---	325,000	---	23600	84200	23300	27100
Manganese	630 / 636	4100	8,700	1,600	---	495	132	222	247
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	36.1	5.9	25.2	27.7
Potassium	---	---	---	---	---	2270	788	2300	2590
Silver	4.4	1000	---	390	---	0.3	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	809	257	204	223
Vanadium	550	1400	---	550	---	28.4	5.8	24.4	25.5
Zinc	5,100	61,000	---	23,000	---	56.6	27.6	47.3	55.8
<b>TCLP Metals, mg/L</b>		Class I Groundwater <sup>d/</sup>							
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Iron			5			<0.1	<0.1	<0.1	<0.1
Lead			0.0075			<0.005	<0.005	<0.005	<0.005
Manganese			0.15			6.99	1	2.28	0.76
Selenium			0.05			0.011	<0.010	<0.010	<0.010
Zinc			5			<0.1	0.7	<0.1	<0.1
<b>SPLP Metals, mg/L</b>		Class I Groundwater <sup>d/</sup>							
Arsenic			0.05			0.016	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			0.075	<0.005	0.033	0.019
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			0.067	<0.005	0.036	0.023
Iron			5			71.9	<0.1	29.7	16.8
Lead			0.0075			0.03	<0.005	0.013	0.008
Manganese			0.15			0.87	<0.10	0.18	0.11
Nickel			0.1			0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Zinc			5			0.1	<0.1	<0.1	<0.1

--- Refers to not applicable or value not available

<sup>a/</sup> 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.

<sup>b/</sup> Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

<sup>c/</sup> Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

<sup>d/</sup> 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.

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

LPC-663 (Page 17 of 30)  
 Soils for Reuse or Disposal at CCDD Facilities in MSA County Including Chgo  
 FAU 1504 (55th Street)  
 Countryside, Cook County, Illinois  
 BDE Sequence No.: 12403D  
 PTB: 199-014/HH-2, Work Order No.: 39A

Boring ID	Soil Reference Concentrations <sup>a/</sup>	Soil Remediation Objective for Construction Workers <sup>b/</sup>		Soil Remediation Objective for Residential Exposure <sup>c/</sup>		1560V3-53-01	1560V3-53-01	1560V3-53-03	1560V3-53-03
						(0-3)	(3-6)	(0-3)	(3-6)
Sample Depth, ft						7/16/2024	7/16/2024	7/16/2024	7/16/2024
Sample Date						1560V3-53			
Excavation Area(s) ID		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route				
Parameter									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.25	8.04	8.89	8.94
PID Readings (ppm)						0.0	0.0	0.0	0.0
<b>VOCs, mg/kg</b>									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Benzene	0.03	2,300	2.2	12	0.8	<0.005	<0.005	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	13	20,000	58	7,800	400	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005
Xylenes, Total	5.6	41,000	5.6	16,000	320	<0.005	<0.005	<0.005	<0.005
<b>SVOCs, mg/kg</b>									
Acenaphthene	570	120,000	---	4,700	---	<0.33	<0.33	<0.33	<0.33
Acenaphthylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Anthracene	12,000	610,000	---	23,000	---	<0.33	<0.33	<0.33	<0.33
Benzo(a)anthracene	0.9 / 10.9* / 1.8	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Benzo(a)pyrene	0.09 / 11.4* / 2.1	17	---	0.09	---	<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	<0.33
Benzo(k)fluoranthene	9	1,700	---	9	---	<0.33	<0.33	<0.33	<0.33
Benzo(g,h,i)perylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Chrysene	88	17,000	---	88	---	<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
Dibenzofuran	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Fluorene	560	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Indeno(1,2,3-cd)pyrene	0.9 / 5.77* / 1.6	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33
<b>Total Metals, mg/kg</b>									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	<b>8.7</b>	<b>5.3</b>	<b>7.7</b>	<b>11.3</b>
Barium	1,500	14,000	870,000	5,500	690,000	<b>40.3</b>	<b>53.4</b>	<b>58.3</b>	<b>54.2</b>
Beryllium	22	410	44,000	160	1,300	<0.5	<b>0.5</b>	<0.5	<b>0.6</b>
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	<b>48800</b>	<b>47800</b>	<b>32800</b>	<b>41200</b>
Chromium	21	4100	690	230	270	<b>16.2</b>	<b>17.2</b>	<b>15.1</b>	<b>19.5</b>
Cobalt	20	12000	---	4,700	---	<b>13</b>	<b>10.6</b>	<b>8.6</b>	<b>13.9</b>
Copper	2,900	8,200	---	2,900	---	<b>23.3</b>	<b>22.4</b>	<b>28.7</b>	<b>26.6</b>
Iron	15,000 / 15,900	---	---	---	---	<b>21200</b>	<b>19400</b>	<b>19300</b>	<b>23400</b>
Lead	107	700	---	400	---	<b>14.1</b>	<b>11.3</b>	<b>27.4</b>	<b>29.9</b>
Magnesium	325,000	730,000	---	325,000	---	<b>24100</b>	<b>22100</b>	<b>20400</b>	<b>22200</b>
Manganese	630 / 636	4100	8,700	1,600	---	<b>507</b>	<b>376</b>	<b>282</b>	<b>430</b>
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	<b>33.8</b>	<b>26.7</b>	<b>26</b>	<b>34.6</b>
Potassium	---	---	---	---	---	<b>2010</b>	<b>2230</b>	<b>1410</b>	<b>1930</b>
Silver	4.4	1000	---	390	---	<b>0.3</b>	<0.2	<b>0.2</b>	<b>0.2</b>
Sodium	---	---	---	---	---	<b>286</b>	<b>254</b>	<b>633</b>	<b>1010</b>
Vanadium	550	1400	---	550	---	<b>20.9</b>	<b>20.9</b>	<b>20.2</b>	<b>26.1</b>
Zinc	5,100	61,000	---	23,000	---	<b>46.1</b>	<b>44.4</b>	<b>53.9</b>	<b>55.1</b>
<b>TCLP Metals, mg/L</b>			Class I Groundwater <sup>d/</sup>						
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Iron			5			<0.1	<0.1	<0.1	<0.1
Lead			0.0075			<0.005	<0.005	<0.005	<0.005
Manganese			0.15			<b>0.65</b>	<b>0.61</b>	<b>0.35</b>	<b>2.56</b>
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Zinc			5			<0.1	<0.1	<0.1	<0.1
<b>SPLP Metals, mg/L</b>			Class I Groundwater <sup>d/</sup>						
Arsenic			0.05			<b>0.026</b>	<0.010	<b>0.057</b>	<b>0.054</b>
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<b>0.006</b>	<b>0.008</b>
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<b>0.079</b>	<b>0.019</b>	<b>0.193</b>	<b>0.25</b>
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			<b>0.104</b>	<b>0.017</b>	<b>0.253</b>	<b>0.33</b>
Iron			5			<b>78.6</b>	<b>16.8</b>	<b>190</b>	<b>222</b>
Lead			0.0075			<b>0.046</b>	<b>0.006</b>	<b>0.326</b>	<b>0.115</b>
Manganese			0.15			<b>0.43</b>	<b>0.11</b>	<b>1.03</b>	<b>1.26</b>
Nickel			0.1			<0.1	<0.1	<b>0.2</b>	<b>0.3</b>
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Zinc			5			<b>0.2</b>	<0.1	<b>0.7</b>	<b>0.6</b>

--- Refers to not applicable or value not available

<sup>a/</sup> 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.

<sup>b/</sup> Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

<sup>c/</sup> Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

<sup>d/</sup> 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.

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

LPC-663 (Page 18 of 30)  
 Soils for Reuse or Disposal at CCDD Facilities in MSA County Including Chgo  
 FAU 1504 (55th Street)  
 Countryside, Cook County, Illinois  
 BDE Sequence No.: 12403D  
 PTB: 199-014/HH-2, Work Order No.: 39A

Boring ID	Soil Reference Concentrations <sup>a/</sup>	Soil Remediation Objective for Construction Workers <sup>b/</sup>		Soil Remediation Objective for Residential Exposure <sup>c/</sup>		1560V3-54-01	1560V3-54-01	DUP-12 (1560V3-54-01)	1560V3-55-01
						(0-3)	(3-6)	(3-6)	(0-3)
Sample Depth, ft	Sample Date					7/16/2024	7/16/2024	7/16/2024	7/16/2024
Excavation Area(s) ID		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	1560V3-54			1560V3-55
<b>Parameter</b>									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.61	8.04	8.67	8.19
PID Readings (ppm)						0.0	0.0	0.0	0.0
<b>VOCs, mg/kg</b>									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Benzene	0.03	2,300	2.2	12	0.8	<0.005	<0.005	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	13	20,000	58	7,800	400	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005
Xylenes, Total	5.6	41,000	5.6	16,000	320	<0.005	<0.005	<0.005	<0.005
<b>SVOCS, mg/kg</b>									
Acenaphthene	570	120,000	---	4,700	---	<0.33	<0.33	<0.33	<0.33
Acenaphthylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Anthracene	12,000	610,000	---	23,000	---	<0.33	<0.33	<0.33	<0.33
Benzo(a)anthracene	0.9 / 10.9* / 1.8	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Benzo(a)pyrene	0.09 / 11.4* / 2.1	17	---	0.09	---	<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	<0.33
Benzo(k)fluoranthene	9	1,700	---	9	---	<0.33	<0.33	<0.33	<0.33
Benzo(g,h,i)perylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Chrysene	88	17,000	---	88	---	<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
Dibenzofuran	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Fluorene	560	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Indeno(1,2,3-cd)pyrene	0.9 / 5.77* / 1.6	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33
<b>Total Metals, mg/kg</b>									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	6	12.9	8.1	9.8
Barium	1,500	14,000	870,000	5,500	690,000	33.8	48.2	30.2	64.2
Beryllium	22	410	44,000	160	1,300	<0.5	<0.5	<0.5	<0.5
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	31300	23700	45900	36100
Chromium	21	4100	690	230	270	14.5	13.9	11.7	17.9
Cobalt	20	12000	---	4,700	---	10	9.8	9.4	11.8
Copper	2,900	8,200	---	2,900	---	37.3	30.8	29.1	36.2
Iron	15,000 / 15,900	---	---	---	---	16100	21700	16500	22200
Lead	107	700	---	400	---	51.7	29.2	30.2	67.4
Magnesium	325,000	730,000	---	325,000	---	18500	15000	23400	23600
Manganese	630 / 636	4100	8,700	1,600	---	317	400	405	398
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	23.8	28.2	25.5	33.1
Potassium	---	---	---	---	---	1350	1110	1150	1680
Silver	4.4	1000	---	390	---	<0.2	0.2	<0.2	<0.2
Sodium	---	---	---	---	---	787	874	622	769
Vanadium	550	1400	---	550	---	18.5	22.4	15.5	22.9
Zinc	5,100	61,000	---	23,000	---	56.2	48.8	50.4	77.2
<b>TCPLP Metals, mg/L</b>									
Class I Groundwater <sup>d/</sup>									
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Iron			5			<0.1	<0.1	<0.1	0.2
Lead			0.0075			0.02	<0.005	<0.005	0.043
Manganese			0.15			4.69	0.6	3.37	3.57
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Zinc			5			<0.1	<0.1	<0.1	<0.1
<b>SPLP Metals, mg/L</b>									
Class I Groundwater <sup>d/</sup>									
Arsenic			0.05			0.089	0.014	0.014	0.042
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			0.007	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			0.204	0.039	0.022	0.101
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			0.28	0.051	0.048	0.207
Iron			5			225	42.1	31.5	127
Lead			0.0075			0.321	0.035	0.031	0.618
Manganese			0.15			1.55	0.26	0.22	1.09
Nickel			0.1			0.3	<0.1	<0.1	0.2
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Zinc			5			0.6	0.1	<0.1	0.5

--- Refers to not applicable or value not available

<sup>a/</sup> 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.

<sup>b/</sup> Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

<sup>c/</sup> Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

<sup>d/</sup> 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.

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



LPC-663 (Page 19 of 30)  
Soils for Reuse or Disposal at CCDD Facilities in MSA County Including Chgo  
FAU 1504 (55th Street)  
Countryside, Cook County, Illinois  
BDE Sequence No.: 12403D  
PTB: 199-014/HH-2, Work Order No.: 39A

Boring ID	Soil Reference Concentrations <sup>a/</sup>	Soil Remediation Objective for Construction Workers <sup>b/</sup>		Soil Remediation Objective for Residential Exposure <sup>c/</sup>		1560V3-55-01	1560V3-55-02	1560V3-55-02	1560V3-56-01
						(3-6)	(0-3)	(3-6)	(0-3)
Sample Depth, ft						7/16/2024	7/16/2024	7/16/2024	7/16/2024
Sample Date									
Excavation Area(s) ID		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	1560V3-55			1560V3-56
Parameter									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	7.59	8.62	8.33	7.18
PID Readings (ppm)						0.0	0.1	0.0	0.0
<b>VOCS, mg/kg</b>									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Benzene	0.03	2,300	2.2	12	0.8	<0.005	<0.005	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	13	20,000	58	7,800	400	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005
Xylenes, Total	5.6	41,000	5.6	16,000	320	<0.005	<0.005	<0.005	<0.005
<b>SVOCS, mg/kg</b>									
Acenaphthene	570	120,000	---	4,700	---	<0.33	<0.33	<0.33	<0.33
Acenaphthylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Anthracene	12,000	610,000	---	23,000	---	<0.33	<0.33	<0.33	<0.33
Benzo(a)anthracene	0.9 / 10.9* / 1.8	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Benzo(a)pyrene	0.09 / 11.4* / 2.1	17	---	0.09	---	<0.09	<b>0.111</b>	<0.09	<0.09
Benzo(b)fluoranthene	0.9 / 13.1* / 2.1	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Benzo(k)fluoranthene	9	1,700	---	9	---	<0.33	<0.33	<0.33	<0.33
Benzo(g,h,i)perylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Chrysene	88	17,000	---	88	---	<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
Dibenzofuran	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Fluorene	560	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Indeno(1,2,3-cd)pyrene	0.9 / 5.77* / 1.6	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33
<b>Total Metals, mg/kg</b>									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	<b>5.3</b>	<b>9.5</b>	<b>7.6</b>	<b>5.8</b>
Barium	1,500	14,000	870,000	5,500	690,000	<b>83.7</b>	<b>119</b>	<b>64.4</b>	<b>104</b>
Beryllium	22	410	44,000	160	1,300	<b>0.5</b>	<b>0.7</b>	<0.5	<b>0.7</b>
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	<b>1740</b>	<b>5470</b>	<b>43000</b>	<b>2510</b>
Chromium	21	4100	690	230	270	<b>16.6</b>	<b>18.3</b>	<b>16.4</b>	<b>17</b>
Cobalt	20	12000	---	4,700	---	<b>10.7</b>	<b>12</b>	<b>8.3</b>	<b>8.8</b>
Copper	2,900	8,200	---	2,900	---	<b>25.4</b>	<b>25.1</b>	<b>33.9</b>	<b>20</b>
Iron	15,000 / 15,900	---	---	---	---	<b>20400</b>	<b>23000</b>	<b>19900</b>	<b>19800</b>
Lead	107	700	---	400	---	<b>13.9</b>	<b>21.1</b>	<b>12.7</b>	<b>14.3</b>
Magnesium	325,000	730,000	---	325,000	---	<b>3640</b>	<b>5320</b>	<b>22800</b>	<b>3510</b>
Manganese	630 / 636	4100	8,700	1,600	---	<b>284</b>	<b>205</b>	<b>295</b>	<b>422</b>
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<b>0.06</b>
Nickel	100	4100	440,000	1,600	13,000	<b>29.6</b>	<b>29.2</b>	<b>30</b>	<b>21.6</b>
Potassium	---	---	---	---	---	<b>1020</b>	<b>919</b>	<b>1560</b>	<b>677</b>
Silver	4.4	1000	---	390	---	<0.2	<b>0.3</b>	<b>0.2</b>	<0.2
Sodium	---	---	---	---	---	<b>1350</b>	<b>1750</b>	<b>1020</b>	<b>4040</b>
Vanadium	550	1400	---	550	---	<b>21</b>	<b>33.5</b>	<b>21.8</b>	<b>28.6</b>
Zinc	5,100	61,000	---	23,000	---	<b>47.5</b>	<b>50.5</b>	<b>47.1</b>	<b>57.1</b>
<b>TCLP Metals, mg/L</b>			Class I Groundwater <sup>d/</sup>						
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Iron			5			<b>0.2</b>	<0.1	<0.1	<0.1
Lead			0.0075			<b>0.011</b>	<b>0.028</b>	<0.005	<0.005
Manganese			0.15			<b>3.22</b>	<b>9</b>	<b>1.32</b>	<0.10
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Zinc			5			<0.1	<0.1	<0.1	<0.1
<b>SPLP Metals, mg/L</b>			Class I Groundwater <sup>d/</sup>						
Arsenic			0.05			<b>0.066</b>	<b>0.04</b>	<b>0.028</b>	<0.010
Barium			2			<b>1.4</b>	<1.0	<1.0	<1.0
Beryllium			0.004			<b>0.008</b>	<b>0.005</b>	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<b>0.248</b>	<b>0.153</b>	<b>0.093</b>	<b>0.071</b>
Cobalt			1			<b>0.1</b>	<0.1	<0.1	<0.1
Copper			0.65			<b>0.342</b>	<b>0.193</b>	<b>0.134</b>	<b>0.049</b>
Iron			5			<b>251</b>	<b>159</b>	<b>91</b>	<b>67.7</b>
Lead			0.0075			<b>0.14</b>	<b>0.436</b>	<b>0.039</b>	<b>0.019</b>
Manganese			0.15			<b>2.77</b>	<b>3.05</b>	<b>0.67</b>	<b>0.4</b>
Nickel			0.1			<b>0.4</b>	<b>0.2</b>	<b>0.1</b>	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Zinc			5			<b>0.6</b>	<b>0.5</b>	<b>0.2</b>	<b>0.2</b>

--- Refers to not applicable or value not available

<sup>a/</sup> 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.

<sup>b/</sup> Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

<sup>c/</sup> Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

<sup>d/</sup> 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.

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

LPC-663 (Page 20 of 30)  
 Soils for Reuse or Disposal at CCDD Facilities in MSA County Including Chgo  
 FAU 1504 (55th Street)  
 Countryside, Cook County, Illinois  
 BDE Sequence No.: 12403D  
 PTB: 199-014/HH-2, Work Order No.: 39A

Boring ID	Soil Reference Concentrations <sup>a/</sup>	Soil Remediation Objective for Construction Workers <sup>b/</sup>		Soil Remediation Objective for Residential Exposure <sup>c/</sup>		1560V3-56-01	1560V3-56-02	1560V3-56-02	1560V3-57-01
						(3-6)	(0-3)	(3-6)	(0-5)
Sample Depth, ft						7/16/2024	7/16/2024	7/16/2024	7/17/2024
Sample Date									
Excavation Area(s) ID		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	1560V3-56			1560V3-57-01
<b>Parameter</b>									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.01	8.72	8.21	8.3
PID Readings (ppm)						0.0	0.0	0.0	0.0
<b>VOCs, mg/kg</b>									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Benzene	0.03	2,300	2.2	12	0.8	<0.005	<0.005	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	13	20,000	58	7,800	400	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005
Xylenes, Total	5.6	41,000	5.6	16,000	320	<0.005	<0.005	<0.005	<0.005
<b>SVOCs, mg/kg</b>									
Acenaphthene	570	120,000	---	4,700	---	<0.33	<0.33	<0.33	<0.33
Acenaphthylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Anthracene	12,000	610,000	---	23,000	---	<0.33	<0.33	<0.33	<0.33
Benzo(a)anthracene	0.9 / 10.9* / 1.8	170	---	0.9	---	<0.33	<b>0.557</b>	<0.33	<b>0.681</b>
Benzo(a)pyrene	0.09 / 11.4* / 2.1	17	---	0.09	---	<b>0.114</b>	<b>0.537</b>	<b>0.095</b>	<b>0.645</b>
Benzo(b)fluoranthene	0.9 / 13.1* / 2.1	170	---	0.9	---	<0.33	<b>0.761</b>	<0.33	<b>0.886</b>
Benzo(k)fluoranthene	9	1,700	---	9	---	<0.33	<0.33	<0.33	<b>0.333</b>
Benzo(g,h,i)perylene	---	---	---	---	---	<0.33	<b>0.375</b>	<0.33	<b>0.476</b>
Chrysene	88	17,000	---	88	---	<0.33	<b>0.686</b>	<0.33	<b>0.737</b>
Dibenz(a,h)anthracene	0.09 / 1.03* / 0.42	17	---	0.09	---	<0.09	<b>0.101</b>	<0.09	<b>0.114</b>
Dibenzofuran	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<b>1.53</b>	<0.33	<b>1.48</b>
Fluorene	560	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Indeno(1,2,3-cd)pyrene	0.9 / 5.77* / 1.6	170	---	0.9	---	<0.33	<b>0.434</b>	<0.33	<b>0.495</b>
Phenanthrene	---	---	---	---	---	<0.33	<b>0.802</b>	<0.33	<b>0.656</b>
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<b>1.16</b>	<0.33	<b>1.21</b>
<b>Total Metals, mg/kg</b>									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	<b>5.9</b>	<b>3.6</b>	<b>8</b>	<b>5.1</b>
Barium	1,500	14,000	870,000	5,500	690,000	<b>107</b>	<b>67.5</b>	<b>135</b>	<b>54.3</b>
Beryllium	22	410	44,000	160	1,300	<b>0.6</b>	<b>0.5</b>	<b>0.6</b>	<0.5
Cadmium	5.2	200	59,000	78	1,800	<0.5	<b>0.6</b>	<0.5	<b>0.5</b>
Calcium	---	---	---	---	---	<b>7490</b>	<b>22200</b>	<b>30000</b>	<b>53200</b>
Chromium	21	4100	690	230	270	<b>16.6</b>	<b>14.3</b>	<b>18.5</b>	<b>18</b>
Cobalt	20	12000	---	4,700	---	<b>7.5</b>	<b>5.8</b>	<b>6.7</b>	<b>9.7</b>
Copper	2,900	8,200	---	2,900	---	<b>23.5</b>	<b>24.9</b>	<b>22.9</b>	<b>26.1</b>
Iron	15,000 / 15,900	---	---	---	---	<b>19400</b>	<b>13200</b>	<b>22600</b>	<b>20200</b>
Lead	107	700	---	400	---	<b>16.7</b>	<b>83.1</b>	<b>53.5</b>	<b>20.3</b>
Magnesium	325,000	730,000	---	325,000	---	<b>6450</b>	<b>14800</b>	<b>21300</b>	<b>25500</b>
Manganese	630 / 636	4100	8,700	1,600	---	<b>323</b>	<b>93.5</b>	<b>262</b>	<b>307</b>
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	<b>22.8</b>	<b>17.3</b>	<b>23.3</b>	<b>25.7</b>
Potassium	---	---	---	---	---	<b>916</b>	<b>1380</b>	<b>1390</b>	<b>2220</b>
Silver	4.4	1000	---	390	---	<0.2	<0.2	<b>0.2</b>	<0.2
Sodium	---	---	---	---	---	<b>2950</b>	<b>4400</b>	<b>3940</b>	<b>454</b>
Vanadium	550	1400	---	550	---	<b>25.8</b>	<b>21.1</b>	<b>28.9</b>	<b>22</b>
Zinc	5,100	61,000	---	23,000	---	<b>51.6</b>	<b>63.9</b>	<b>58.6</b>	<b>56.4</b>
<b>TCLP Metals, mg/L</b>			Class I Groundwater <sup>d/</sup>						
Arsenic				0.05		<0.010	<0.010	<0.010	<0.010
Barium				2		<1.0	<1.0	<1.0	<1.0
Cadmium				0.005		<0.005	<0.005	<0.005	<b>0.008</b>
Iron				5		<b>0.1</b>	<0.1	<b>1</b>	<0.1
Lead				0.0075		<b>0.039</b>	<0.005	<0.005	<b>0.026</b>
Manganese				0.15		<b>5.89</b>	<b>1.03</b>	<b>0.43</b>	<b>5.86</b>
Selenium				0.05		<0.010	<0.010	<0.010	<0.010
Zinc				5		<0.1	<0.1	<0.1	<0.1
<b>SPLP Metals, mg/L</b>			Class I Groundwater <sup>d/</sup>						
Arsenic				0.05		<b>0.05</b>	<b>0.057</b>	<b>0.03</b>	<0.010
Barium				2		<b>1.2</b>	<b>1.2</b>	<1.0	<1.0
Beryllium				0.004		<b>0.007</b>	<b>0.009</b>	<0.004	<0.004
Cadmium				0.005		<0.005	<0.005	<0.005	<0.005
Chromium				0.1		<b>0.203</b>	<b>0.233</b>	<b>0.134</b>	<b>0.024</b>
Cobalt				1		<0.1	<0.1	<0.1	<0.1
Copper				0.65		<b>0.246</b>	<b>0.28</b>	<b>0.121</b>	<b>0.033</b>
Iron				5		<b>205</b>	<b>204</b>	<b>122</b>	<b>22.5</b>
Lead				0.0075		<b>0.352</b>	<b>0.897</b>	<b>0.241</b>	<b>0.025</b>
Manganese				0.15		<b>2.18</b>	<b>1.22</b>	<b>0.63</b>	<b>0.15</b>
Nickel				0.1		<b>0.2</b>	<b>0.2</b>	<b>0.1</b>	<0.1
Selenium				0.05		<0.010	<0.010	<0.010	<0.010
Zinc				5		<b>0.6</b>	<b>0.8</b>	<b>0.4</b>	<0.1

--- Refers to not applicable or value not available

<sup>a/</sup> 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.

<sup>b/</sup> Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

<sup>c/</sup> Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

<sup>d/</sup> 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.

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

Soils for Reuse or Disposal at CCDD Facilities in MSA County Including Chgo

FAU 1504 (55th Street)

Countryside, Cook County, Illinois

BDE Sequence No.: 12403D

PTB: 199-014/HH-2, Work Order No.: 39A

Boring ID	Soil Reference Concentrations <sup>a/</sup>	Soil Remediation Objective for Construction Workers <sup>b/</sup>		Soil Remediation Objective for Residential Exposure <sup>c/</sup>		1560V3-57-01	1560V3-57-02	1560V3-57-02	1560V3-58-01
						(5-10)	(0-5)	(5-10)	(0-3)
Sample Depth, ft	Sample Date					7/17/2024	7/17/2024	7/17/2024	7/16/2024
Excavation Area(s) ID		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	1560V3-57-01			1560V3-58
<b>Parameter</b>									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	7.91	8.37	8.27	7.92
PID Readings (ppm)						<b>0.2</b>	0.0	0.0	0.0
<b>VOCs, mg/kg</b>									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Benzene	0.03	2,300	2.2	12	0.8	<0.005	<0.005	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	13	20,000	58	7,800	400	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005
Xylenes, Total	5.6	41,000	5.6	16,000	320	<0.005	<0.005	<0.005	<0.005
<b>SVOCs, mg/kg</b>									
Acenaphthene	570	120,000	---	4,700	---	<0.33	<0.33	<0.33	<0.33
Acenaphthylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Anthracene	12,000	610,000	---	23,000	---	<0.33	<0.33	<0.33	<0.33
Benzo(a)anthracene	0.9 / 10.9* / 1.8	170	---	0.9	---	<b>0.367</b>	<0.33	<0.33	<0.33
Benzo(a)pyrene	0.09 / 11.4* / 2.1	17	---	0.09	---	<b>0.363</b>	<0.09	<0.09	<0.09
Benzo(b)fluoranthene	0.9 / 13.1* / 2.1	170	---	0.9	---	<b>0.484</b>	<0.33	<0.33	<0.33
Benzo(k)fluoranthene	9	1,700	---	9	---	<0.33	<0.33	<0.33	<0.33
Benzo(g,h,i)perylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Chrysene	88	17,000	---	88	---	<b>0.422</b>	<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
Dibenzofuran	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Fluoranthene	3,100	82,000	---	3,100	---	<b>0.75</b>	<0.33	<0.33	<0.33
Fluorene	560	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Indeno(1,2,3-cd)pyrene	0.9 / 5.77* / 1.6	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<b>0.372</b>	<0.33	<0.33	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<b>0.659</b>	<0.33	<0.33	<0.33
<b>Total Metals, mg/kg</b>									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<b>1.3</b>
Arsenic	11.3 / 13	61	25,000	---	750	<b>6.6</b>	<b>6.7</b>	<b>7.5</b>	<b>3.3</b>
Barium	1,500	14,000	870,000	5,500	690,000	<b>79.7</b>	<b>73.1</b>	<b>56.7</b>	<b>38.5</b>
Beryllium	22	410	44,000	160	1,300	<b>0.5</b>	<b>0.5</b>	<b>0.6</b>	<0.5
Cadmium	5.2	200	59,000	78	1,800	<b>0.5</b>	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	<b>57000</b>	<b>40500</b>	<b>36900</b>	<b>26300</b>
Chromium	21	4100	690	230	270	<b>17.2</b>	<b>19.9</b>	<b>18</b>	<b>14.4</b>
Cobalt	20	12000	---	4,700	---	<b>9.9</b>	<b>12.3</b>	<b>10.6</b>	<b>8.2</b>
Copper	2,900	8,200	---	2,900	---	<b>28.5</b>	<b>27.7</b>	<b>27.3</b>	<b>16.6</b>
Iron	15,000 / 15,900	---	---	---	---	<b>18800</b>	<b>21900</b>	<b>22900</b>	<b>41200</b>
Lead	107	700	---	400	---	<b>61.4</b>	<b>27.2</b>	<b>13.6</b>	<b>9</b>
Magnesium	325,000	730,000	---	325,000	---	<b>33300</b>	<b>19800</b>	<b>18800</b>	<b>18900</b>
Manganese	630 / 636	4100	8,700	1,600	---	<b>364</b>	<b>437</b>	<b>309</b>	<b>432</b>
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	<b>25.5</b>	<b>30.5</b>	<b>28.3</b>	<b>22.1</b>
Potassium	---	---	---	---	---	<b>1800</b>	<b>2220</b>	<b>1860</b>	<b>1610</b>
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<b>0.2</b>
Sodium	---	---	---	---	---	<b>603</b>	<b>857</b>	<b>811</b>	<b>1380</b>
Vanadium	550	1400	---	550	---	<b>23.4</b>	<b>27.2</b>	<b>24.3</b>	<b>19.2</b>
Zinc	5,100	61,000	---	23,000	---	<b>66.4</b>	<b>58.7</b>	<b>53</b>	<b>33.5</b>
<b>TCLP Metals, mg/L</b>		Class I Groundwater <sup>d/</sup>							
Arsenic						<0.010	<0.010	<0.010	<0.010
Barium						<1.0	<b>1.2</b>	<1.0	<1.0
Cadmium						<0.005	<0.005	<0.005	<0.005
Iron						<0.1	<0.1	<0.1	<0.1
Lead						<0.005	<0.005	<0.005	<0.005
Manganese						<b>1.18</b>	<b>0.78</b>	<b>0.77</b>	<b>3.52</b>
Selenium						<0.010	<0.010	<0.010	<0.010
Zinc						<0.1	<0.1	<0.1	<0.1
<b>SPLP Metals, mg/L</b>		Class I Groundwater <sup>d/</sup>							
Arsenic						<0.010	<b>0.017</b>	<0.010	<0.010
Barium						<1.0	<1.0	<1.0	<1.0
Beryllium						<0.004	<0.004	<0.004	<0.004
Cadmium						<0.005	<0.005	<0.005	<0.005
Chromium						<b>0.014</b>	<b>0.079</b>	<b>0.022</b>	<0.005
Cobalt						<0.1	<0.1	<0.1	<0.1
Copper						<b>0.016</b>	<b>0.079</b>	<b>0.023</b>	<0.005
Iron						<b>14.6</b>	<b>76.6</b>	<b>20.2</b>	<0.1
Lead						<b>0.02</b>	<b>0.061</b>	<b>0.007</b>	<0.005
Manganese						<0.10	<b>0.56</b>	<b>0.11</b>	<b>0.13</b>
Nickel						<0.1	<0.1	<0.1	<0.1
Selenium						<0.010	<0.010	<0.010	<0.010
Zinc						<0.1	<b>0.2</b>	<0.1	<0.1

--- Refers to not applicable or value not available

<sup>a/</sup> 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.

<sup>b/</sup> Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

<sup>c/</sup> Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

<sup>d/</sup> 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.

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

Soils for Reuse or Disposal at CCDD Facilities in MSA County Including Chgo

FAU 1504 (55th Street)

Countryside, Cook County, Illinois

BDE Sequence No.: 12403D

PTB: 199-014/HH-2, Work Order No.: 39A

Boring ID	Soil Reference Concentrations <sup>a/</sup>	Soil Remediation Objective for Construction Workers <sup>b/</sup>		Soil Remediation Objective for Residential Exposure <sup>c/</sup>		1560V3-58-01	DUP-13 (1560V3-58-01)	1560V3-60-01	1560V3-60-01
						(3-6)	(3-6)	(0-3)	(3-6)
Sample Depth, ft						7/16/2024	7/16/2024	7/16/2024	7/16/2024
Sample Date									
Excavation Area(s) ID		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	1560V3-58		1560V3-60	
Parameter									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.21	8.36	8.69	8.15
PID Readings (ppm)						0.0	0.0	0.0	0.0
<b>VOCS, mg/kg</b>									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Benzene	0.03	2,300	2.2	12	0.8	<0.005	<0.005	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	13	20,000	58	7,800	400	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005
Xylenes, Total	5.6	41,000	5.6	16,000	320	<0.005	<0.005	<0.005	<0.005
<b>SVOCS, mg/kg</b>									
Acenaphthene	570	120,000	---	4,700	---	<0.33	<0.33	<0.33	<0.33
Acenaphthylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Anthracene	12,000	610,000	---	23,000	---	<0.33	<0.33	<0.33	<0.33
Benzo(a)anthracene	0.9 / 10.9* / 1.8	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Benzo(a)pyrene	0.09 / 11.4* / 2.1	17	---	0.09	---	<0.09	<b>0.211</b>	<0.09	<b>0.092</b>
Benzo(b)fluoranthene	0.9 / 13.1* / 2.1	170	---	0.9	---	<0.33	<b>0.347</b>	<0.33	<0.33
Benzo(k)fluoranthene	9	1,700	---	9	---	<0.33	<0.33	<0.33	<0.33
Benzo(g,h,i)perylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Chrysene	88	17,000	---	88	---	<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
Dibenzofuran	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<b>0.449</b>	<0.33	<0.33
Fluorene	560	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Indeno(1,2,3-cd)pyrene	0.9 / 5.77* / 1.6	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<b>0.367</b>	<0.33	<0.33
<b>Total Metals, mg/kg</b>									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	<b>6</b>	<b>5.3</b>	<b>7.9</b>	<b>6.5</b>
Barium	1,500	14,000	870,000	5,500	690,000	<b>78.4</b>	<b>60.9</b>	<b>66.5</b>	<b>58.2</b>
Beryllium	22	410	44,000	160	1,300	<0.5	<0.5	<b>0.5</b>	<0.5
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	<b>39700</b>	<b>35700</b>	<b>42000</b>	<b>39400</b>
Chromium	21	4100	690	230	270	<b>17.1</b>	<b>33.2</b>	<b>19.3</b>	<b>17.4</b>
Cobalt	20	12000	---	4,700	---	<b>9.6</b>	<b>9.1</b>	<b>10.6</b>	<b>9.3</b>
Copper	2,900	8,200	---	2,900	---	<b>21.6</b>	<b>27.4</b>	<b>26.3</b>	<b>21.4</b>
Iron	15,000 / 15,900	---	---	---	---	<b>19200</b>	<b>25200</b>	<b>21800</b>	<b>19000</b>
Lead	107	700	---	400	---	<b>17.2</b>	<b>28.4</b>	<b>24.7</b>	<b>23.1</b>
Magnesium	325,000	730,000	---	325,000	---	<b>19500</b>	<b>20700</b>	<b>21300</b>	<b>19900</b>
Manganese	630 / 636	4100	8,700	1,600	---	<b>394</b>	<b>720</b>	<b>390</b>	<b>369</b>
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	<b>24.8</b>	<b>24.9</b>	<b>30.4</b>	<b>25.7</b>
Potassium	---	---	---	---	---	<b>1730</b>	<b>1340</b>	<b>1970</b>	<b>1830</b>
Silver	4.4	1000	---	390	---	<0.2	<b>0.3</b>	<b>0.3</b>	<0.2
Sodium	---	---	---	---	---	<b>1890</b>	<b>2020</b>	<b>1620</b>	<b>1310</b>
Vanadium	550	1400	---	550	---	<b>23.3</b>	<b>36</b>	<b>25.7</b>	<b>22.4</b>
Zinc	5,100	61,000	---	23,000	---	<b>45.6</b>	<b>55.8</b>	<b>53.5</b>	<b>46.8</b>
<b>TCLP Metals, mg/L</b>			Class I Groundwater <sup>d/</sup>						
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Iron			5			<0.1	<0.1	<0.1	<0.1
Lead			0.0075			<0.005	<0.005	<0.005	<0.005
Manganese			0.15			<0.10	<0.10	<b>2.48</b>	<b>4.59</b>
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Zinc			5			<0.1	<0.1	<0.1	<0.1
<b>SPLP Metals, mg/L</b>			Class I Groundwater <sup>d/</sup>						
Arsenic			0.05			<b>0.054</b>	<b>0.018</b>	<b>0.02</b>	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<b>0.006</b>	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<b>0.155</b>	<b>0.06</b>	<b>0.063</b>	<b>0.031</b>
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			<b>0.172</b>	<b>0.066</b>	<b>0.068</b>	<b>0.032</b>
Iron			5			<b>169</b>	<b>64.1</b>	<b>61.1</b>	<b>27.7</b>
Lead			0.0075			<b>0.132</b>	<b>0.077</b>	<b>0.091</b>	<b>0.025</b>
Manganese			0.15			<b>0.96</b>	<b>0.3</b>	<b>0.51</b>	<b>0.34</b>
Nickel			0.1			<b>0.2</b>	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Zinc			5			<b>0.4</b>	<b>0.2</b>	<b>0.2</b>	<0.1

--- Refers to not applicable or value not available

<sup>a/</sup> 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.

<sup>b/</sup> Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

<sup>c/</sup> Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

<sup>d/</sup> 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.

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

LPC-663 (Page 23 of 30)  
 Soils for Reuse or Disposal at CCDD Facilities in MSA County Including Chgo  
 FAU 1504 (55th Street)  
 Countryside, Cook County, Illinois  
 BDE Sequence No.: 12403D  
 PTB: 199-014/HH-2, Work Order No.: 39A

Boring ID	Soil Reference Concentrations <sup>a/</sup>	Soil Remediation Objective for Construction Workers <sup>b/</sup>		Soil Remediation Objective for Residential Exposure <sup>c/</sup>		1560V3-60-02	DUP-14 (1560V3-60-02)	1560V3-60-02	1560V3-61-02
						(0-3)	(0-3)	(3-6)	(0-3)
Sample Depth, ft	Sample Date					7/16/2024	7/16/2024	7/16/2024	7/16/2024
Excavation Area(s) ID		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	1560V3-60			1560V3-61-02
<b>Parameter</b>									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.09	8.03	8.03	8.6
PID Readings (ppm)						0.0	0.0	0.0	0.0
<b>VOCs, mg/kg</b>									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Benzene	0.03	2,300	2.2	12	0.8	<0.005	<0.005	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	13	20,000	58	7,800	400	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005
Xylenes, Total	5.6	41,000	5.6	16,000	320	<0.005	<0.005	<0.005	<0.005
<b>SVOCs, mg/kg</b>									
Acenaphthene	570	120,000	---	4,700	---	<0.33	<0.33	<0.33	<0.33
Acenaphthylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Anthracene	12,000	610,000	---	23,000	---	<0.33	<0.33	<0.33	<0.33
Benzo(a)anthracene	0.9 / 10.9* / 1.8	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Benzo(a)pyrene	0.09 / 11.4* / 2.1	17	---	0.09	---	<b>0.162</b>	<b>0.11</b>	<0.09	<b>0.306</b>
Benzo(b)fluoranthene	0.9 / 13.1* / 2.1	170	---	0.9	---	<0.33	<0.33	<0.33	<b>0.451</b>
Benzo(k)fluoranthene	9	1,700	---	9	---	<0.33	<0.33	<0.33	<0.33
Benzo(g,h,i)perylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Chrysene	88	17,000	---	88	---	<0.33	<0.33	<0.33	<b>0.362</b>
Dibenz(a,h)anthracene	0.09 / 1.03* / 0.42	17	---	0.09	---	<0.09	<0.09	<0.09	<0.09
Dibenzofuran	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Fluoranthene	3,100	82,000	---	3,100	---	<b>0.394</b>	<b>0.356</b>	<0.33	<b>0.639</b>
Fluorene	560	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Indeno(1,2,3-cd)pyrene	0.9 / 5.77* / 1.6	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<b>0.593</b>
<b>Total Metals, mg/kg</b>									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	<b>8</b>	<b>6.5</b>	<b>7.8</b>	<b>5.7</b>
Barium	1,500	14,000	870,000	5,500	690,000	<b>93.2</b>	<b>56.8</b>	<b>75.6</b>	<b>61.8</b>
Beryllium	22	410	44,000	160	1,300	<b>0.6</b>	<0.5	<b>0.6</b>	<0.5
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	<b>13700</b>	<b>19000</b>	<b>23300</b>	<b>52300</b>
Chromium	21	4100	690	230	270	<b>15.8</b>	<b>12</b>	<b>18.1</b>	<b>17.8</b>
Cobalt	20	12000	---	4,700	---	<b>8.1</b>	<b>6.4</b>	<b>10.9</b>	<b>6.9</b>
Copper	2,900	8,200	---	2,900	---	<b>20.1</b>	<b>39.5</b>	<b>32.4</b>	<b>23</b>
Iron	15,000 / 15,900	---	---	---	---	<b>20400</b>	<b>20700</b>	<b>20900</b>	<b>17000</b>
Lead	107	700	---	400	---	<b>32.9</b>	<b>44</b>	<b>21.6</b>	<b>68</b>
Magnesium	325,000	730,000	---	325,000	---	<b>9200</b>	<b>11000</b>	<b>14300</b>	<b>27200</b>
Manganese	630 / 636	4100	8,700	1,600	---	<b>335</b>	<b>150</b>	<b>324</b>	<b>270</b>
Mercury	0.89	61	0.1	23	10	<b>0.06</b>	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	<b>19.6</b>	<b>16.5</b>	<b>33.6</b>	<b>22.2</b>
Potassium	---	---	---	---	---	<b>1170</b>	<b>749</b>	<b>1570</b>	<b>1410</b>
Silver	4.4	1000	---	390	---	<b>0.2</b>	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	<b>90</b>	<b>135</b>	<b>356</b>	<b>370</b>
Vanadium	550	1400	---	550	---	<b>26.9</b>	<b>22.9</b>	<b>24.3</b>	<b>21.3</b>
Zinc	5,100	61,000	---	23,000	---	<b>51.1</b>	<b>65.3</b>	<b>61</b>	<b>59.3</b>
<b>TCLP Metals, mg/L</b>		Class I Groundwater <sup>d/</sup>							
Arsenic				0.05		<0.010	<0.010	<0.010	<0.010
Barium				2		<1.0	<1.0	<1.0	<1.0
Cadmium				0.005		<0.005	<0.005	<0.005	<0.005
Iron				5		<0.1	<0.1	<0.1	<0.1
Lead				0.0075		<0.005	<0.005	<0.005	<0.005
Manganese				0.15		<b>0.9</b>	<b>2.74</b>	<b>3.96</b>	<b>0.43</b>
Selenium				0.05		<0.010	<0.010	<0.010	<0.010
Zinc				5		<0.1	<0.1	<0.1	<0.1
<b>SPLP Metals, mg/L</b>		Class I Groundwater <sup>d/</sup>							
Arsenic				0.05		<0.010	<0.010	<0.010	<0.010
Barium				2		<1.0	<1.0	<1.0	<1.0
Beryllium				0.004		<0.004	<0.004	<0.004	<0.004
Cadmium				0.005		<0.005	<0.005	<0.005	<0.005
Chromium				0.1		<b>0.006</b>	<b>0.006</b>	<0.005	<b>0.025</b>
Cobalt				1		<0.1	<0.1	<0.1	<0.1
Copper				0.65		<b>0.008</b>	<b>0.009</b>	<0.005	<b>0.03</b>
Iron				5		<b>4.2</b>	<b>5.5</b>	<b>1.6</b>	<b>25.5</b>
Lead				0.0075		<b>0.01</b>	<b>0.008</b>	<0.005	<b>0.035</b>
Manganese				0.15		<0.10	<0.10	<0.10	<0.10
Nickel				0.1		<0.1	<0.1	<0.1	<0.1
Selenium				0.05		<0.010	<0.010	<0.010	<0.010
Zinc				5		<0.1	<0.1	<0.1	<0.1

--- Refers to not applicable or value not available

<sup>a/</sup> 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.

<sup>b/</sup> Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

<sup>c/</sup> Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

<sup>d/</sup> 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.

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

LPC-663 (Page 24 of 30)  
 Soils for Reuse or Disposal at CCDD Facilities in MSA County Including Chgo  
 FAU 1504 (55th Street)  
 Countryside, Cook County, Illinois  
 BDE Sequence No.: 12403D  
 PTB: 199-014/HH-2, Work Order No.: 39A

Boring ID	Soil Reference Concentrations <sup>a/</sup>	Soil Remediation Objective for Construction Workers <sup>b/</sup>		Soil Remediation Objective for Residential Exposure <sup>c/</sup>		1560V3-61-02	DUP-15 (1560V3-61-02)	1560V3-62-01	1560V3-62-01
						(3-6)	(3-6)	(0-3)	(3-6)
Sample Depth, ft	Sample Date					7/16/2024	7/16/2024	7/16/2024	7/16/2024
Excavation Area(s) ID		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	1560V3-61-02		1560V3-62	
<b>Parameter</b>									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.54	8.27	8.83	8.99
PID Readings (ppm)						0.0	0.0	0.0	0.0
<b>VOCs, mg/kg</b>									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Benzene	0.03	2,300	2.2	12	0.8	<0.005	<0.005	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	13	20,000	58	7,800	400	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005
Xylenes, Total	5.6	41,000	5.6	16,000	320	<0.005	<0.005	<0.005	<0.005
<b>SVOCs, mg/kg</b>									
Acenaphthene	570	120,000	---	4,700	---	<0.33	<0.33	<0.33	<0.33
Acenaphthylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Anthracene	12,000	610,000	---	23,000	---	<0.33	<0.33	<0.33	<0.33
Benzo(a)anthracene	0.9 / 10.9* / 1.8	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Benzo(a)pyrene	0.09 / 11.4* / 2.1	17	---	0.09	---	<0.09	<b>0.135</b>	<0.09	<0.09
Benzo(b)fluoranthene	0.9 / 13.1* / 2.1	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Benzo(k)fluoranthene	9	1,700	---	9	---	<0.33	<0.33	<0.33	<0.33
Benzo(g,h,i)perylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Chrysene	88	17,000	---	88	---	<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
Dibenzofuran	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Fluorene	560	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Indeno(1,2,3-cd)pyrene	0.9 / 5.77* / 1.6	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33
<b>Total Metals, mg/kg</b>									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	<b>8.5</b>	<b>7.6</b>	<1.0	<b>2.7</b>
Barium	1,500	14,000	870,000	5,500	690,000	<b>47.3</b>	<b>67</b>	<b>2.7</b>	<b>72.9</b>
Beryllium	22	410	44,000	160	1,300	<0.5	<b>0.5</b>	<0.5	<0.5
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	<b>42300</b>	<b>34000</b>	<b>154000</b>	<b>48300</b>
Chromium	21	4100	690	230	270	<b>17.5</b>	<b>18</b>	<b>1</b>	<b>18.7</b>
Cobalt	20	12000	---	4,700	---	<b>7.7</b>	<b>12.7</b>	<0.5	<b>5.7</b>
Copper	2,900	8,200	---	2,900	---	<b>26.7</b>	<b>24.6</b>	<b>0.8</b>	<b>16.2</b>
Iron	15,000 / 15,900	---	---	---	---	<b>19700</b>	<b>19300</b>	<b>962</b>	<b>17300</b>
Lead	107	700	---	400	---	<b>33.6</b>	<b>54.9</b>	<0.5	<b>7.7</b>
Magnesium	325,000	730,000	---	325,000	---	<b>22500</b>	<b>16400</b>	<b>96800</b>	<b>22000</b>
Manganese	630 / 636	4100	8,700	1,600	---	<b>266</b>	<b>487</b>	<b>90.3</b>	<b>202</b>
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	<b>25.8</b>	<b>29.6</b>	<b>1.5</b>	<b>23.8</b>
Potassium	---	---	---	---	---	<b>1660</b>	<b>1630</b>	<b>375</b>	<b>2110</b>
Silver	4.4	1000	---	390	---	<0.2	<b>0.2</b>	<0.2	<b>0.2</b>
Sodium	---	---	---	---	---	<b>341</b>	<b>396</b>	<b>293</b>	<b>2090</b>
Vanadium	550	1400	---	550	---	<b>23</b>	<b>24.3</b>	<b>2.1</b>	<b>21.4</b>
Zinc	5,100	61,000	---	23,000	---	<b>57.5</b>	<b>60.8</b>	<b>1</b>	<b>42.9</b>
<b>TCLP Metals, mg/L</b>		Class I Groundwater <sup>d/</sup>							
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Iron			5			<0.1	<0.1	<0.1	<0.1
Lead			0.0075			<0.005	<b>0.018</b>	<0.005	<0.005
Manganese			0.15			<b>2.67</b>	<b>2.79</b>	<b>1.16</b>	<b>3.03</b>
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Zinc			5			<0.1	<0.1	<0.1	<0.1
<b>SPLP Metals, mg/L</b>		Class I Groundwater <sup>d/</sup>							
Arsenic			0.05			<0.010	<b>0.011</b>	<b>0.014</b>	<b>0.061</b>
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<b>0.004</b>
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<b>0.014</b>	<b>0.043</b>	<b>0.044</b>	<b>0.163</b>
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			<b>0.016</b>	<b>0.042</b>	<b>0.045</b>	<b>0.199</b>
Iron			5			<b>12.8</b>	<b>42.4</b>	<b>44.3</b>	<b>168</b>
Lead			0.0075			<b>0.011</b>	<b>0.053</b>	<b>0.079</b>	<b>0.072</b>
Manganese			0.15			<0.10	<b>0.24</b>	<b>0.37</b>	<b>0.99</b>
Nickel			0.1			<0.1	<0.1	<0.1	<b>0.2</b>
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Zinc			5			<0.1	<b>0.1</b>	<b>0.3</b>	<b>0.4</b>

--- Refers to not applicable or value not available

<sup>a/</sup> 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.

<sup>b/</sup> Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

<sup>c/</sup> Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

<sup>d/</sup> 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.

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

LPC-663 (Page 25 of 30)  
 Soils for Reuse or Disposal at CCDD Facilities in MSA County Including Chgo  
 FAU 1504 (55th Street)  
 Countryside, Cook County, Illinois  
 BDE Sequence No.: 12403D  
 PTB: 199-014/HH-2, Work Order No.: 39A

Boring ID	Soil Reference Concentrations <sup>a/</sup>	Soil Remediation Objective for Construction Workers <sup>b/</sup>		Soil Remediation Objective for Residential Exposure <sup>c/</sup>		1560V3-63-01	1560V3-63-01	1560V3-63-01	1560V3-77-01
						(0-4)	(4-8)	(8-11)	(0-3)
Sample Depth, ft	Sample Date					7/17/2024	7/17/2024	7/17/2024	7/12/2024
Excavation Area(s) ID		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	1560V3-63			1560V3-77
<b>Parameter</b>									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.99	8.47	7.87	8.84
PID Readings (ppm)						0.0	0.0	0.0	<b>0.3</b>
<b>VOCs, mg/kg</b>									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Benzene	0.03	2,300	2.2	12	0.8	<0.005	<0.005	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	13	20,000	58	7,800	400	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005
Xylenes, Total	5.6	41,000	5.6	16,000	320	<0.005	<0.005	<0.005	<0.005
<b>SVOCs, mg/kg</b>									
Acenaphthene	570	120,000	---	4,700	---	<0.33	<0.33	<0.33	<0.33
Acenaphthylene	---	---	---	---	---	<b>0.452</b>	<0.33	<0.33	<0.33
Anthracene	12,000	610,000	---	23,000	---	<b>4.08</b>	<0.33	<0.33	<0.33
Benzo(a)anthracene	0.9 / 10.9* / 1.8	170	---	0.9	---	<b>1.5</b>	<0.33	<0.33	<0.33
Benzo(a)pyrene	0.09 / 11.4* / 2.1	17	---	0.09	---	<b>1.43</b>	<0.09	<0.09	<b>0.139</b>
Benzo(b)fluoranthene	0.9 / 13.1* / 2.1	170	---	0.9	---	<b>1.92</b>	<0.33	<0.33	<0.33
Benzo(k)fluoranthene	9	1,700	---	9	---	<b>0.563</b>	<0.33	<0.33	<0.33
Benzo(g,h,i)perylene	---	---	---	---	---	<b>1.03</b>	<0.33	<0.33	<0.33
Chrysene	88	17,000	---	88	---	<b>1.6</b>	<0.33	<0.33	<0.33
Dibenz(a,h)anthracene	0.09 / 1.03* / 0.42	17	---	0.09	---	<b>0.267</b>	<0.09	<0.09	<0.09
Dibenzofuran	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Fluoranthene	3,100	82,000	---	3,100	---	<b>2.41</b>	<0.33	<0.33	<0.33
Fluorene	560	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Indeno(1,2,3-cd)pyrene	0.9 / 5.77* / 1.6	170	---	0.9	---	<b>1.03</b>	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<b>1.27</b>	<0.33	<0.33	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<b>2.3</b>	<0.33	<0.33	<0.33
<b>Total Metals, mg/kg</b>									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	<b>4.7</b>	<b>7.4</b>	<b>5.3</b>	<b>6.8</b>
Barium	1,500	14,000	870,000	5,500	690,000	<b>51.2</b>	<b>49</b>	<b>43.3</b>	<b>82.3</b>
Beryllium	22	410	44,000	160	1,300	<0.5	<0.5	<0.5	<b>0.7</b>
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<b>0.7</b>
Calcium	---	---	---	---	---	<b>41200</b>	<b>84400</b>	<b>41500</b>	<b>40800</b>
Chromium	21	4100	690	230	270	<b>17.2</b>	<b>14.9</b>	<b>16.2</b>	<b>17.8</b>
Cobalt	20	12000	---	4,700	---	<b>7.2</b>	<b>9.2</b>	<b>11.5</b>	<b>10.3</b>
Copper	2,900	8,200	---	2,900	---	<b>29.2</b>	<b>30.5</b>	<b>22</b>	<b>25.5</b>
Iron	15,000 / 15,900	---	---	---	---	<b>16000</b>	<b>17700</b>	<b>17900</b>	<b>19600</b>
Lead	107	700	---	400	---	<b>79.9</b>	<b>46.8</b>	<b>13.3</b>	<b>85.2</b>
Magnesium	325,000	730,000	---	325,000	---	<b>26300</b>	<b>55300</b>	<b>20700</b>	<b>26000</b>
Manganese	630 / 636	4100	8,700	1,600	---	<b>165</b>	<b>371</b>	<b>501</b>	<b>521</b>
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	<b>22.1</b>	<b>26.5</b>	<b>28.8</b>	<b>25</b>
Potassium	---	---	---	---	---	<b>1380</b>	<b>1410</b>	<b>1870</b>	<b>1520</b>
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<b>0.2</b>
Sodium	---	---	---	---	---	<b>1450</b>	<b>1830</b>	<b>514</b>	<b>1090</b>
Vanadium	550	1400	---	550	---	<b>20.5</b>	<b>19.5</b>	<b>21</b>	<b>27.3</b>
Zinc	5,100	61,000	---	23,000	---	<b>62.9</b>	<b>49.4</b>	<b>44.4</b>	<b>63.1</b>
<b>TCLP Metals, mg/L</b>		Class I Groundwater <sup>d/</sup>							
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Iron			5			<0.1	<b>0.1</b>	<0.1	<0.1
Lead			0.0075			<b>0.025</b>	<0.005	<0.005	<0.005
Manganese			0.15			<b>1.56</b>	<b>4.01</b>	<b>4.56</b>	<b>0.13</b>
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Zinc			5			<0.1	<0.1	<0.1	<0.1
<b>SPLP Metals, mg/L</b>		Class I Groundwater <sup>d/</sup>							
Arsenic			0.05			<0.010	<b>0.028</b>	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<b>0.015</b>	<b>0.053</b>	<0.005	<b>0.065</b>
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			<b>0.017</b>	<b>0.115</b>	<b>0.006</b>	<b>0.052</b>
Iron			5			<b>12.5</b>	<b>67.7</b>	<b>3</b>	<b>51.8</b>
Lead			0.0075			<b>0.046</b>	<b>0.085</b>	<0.005	<b>0.043</b>
Manganese			0.15			<0.10	<b>0.69</b>	<0.10	<b>0.19</b>
Nickel			0.1			<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Zinc			5			<0.1	<b>0.2</b>	<0.1	<b>0.2</b>

--- Refers to not applicable or value not available

<sup>a/</sup> 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.

<sup>b/</sup> Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

<sup>c/</sup> Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

<sup>d/</sup> 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.

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

Soils for Reuse or Disposal at CCDD Facilities in MSA County Including Chgo

FAU 1504 (55th Street)

Countryside, Cook County, Illinois

BDE Sequence No.: 12403D

PTB: 199-014/HH-2, Work Order No.: 39A

Boring ID	Soil Reference Concentrations <sup>a/</sup>	Soil Remediation Objective for Construction Workers <sup>b/</sup>		Soil Remediation Objective for Residential Exposure <sup>c/</sup>		1560V3-82-01	1560V3-82-01	DUP-06 (1560V3-82-01)	1560V3-83-01
						(0-3)	(3-6)	(3-6)	(0-3)
Sample Depth, ft	Sample Date					7/10/2024	7/10/2024	7/10/2024	7/12/2024
Excavation Area(s) ID		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	1560V3-82			1560V3-83
Parameter									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.2	8.85	8.17	8.74
PID Readings (ppm)						0.0	0.0	0.0	0.0
<b>VOCS, mg/kg</b>									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Benzene	0.03	2,300	2.2	12	0.8	<0.005	<0.005	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	13	20,000	58	7,800	400	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005
Xylenes, Total	5.6	41,000	5.6	16,000	320	<0.005	<0.005	<0.005	<0.005
<b>SVOCS, mg/kg</b>									
Acenaphthene	570	120,000	---	4,700	---	<0.33	<0.33	<0.33	<0.33
Acenaphthylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Anthracene	12,000	610,000	---	23,000	---	<0.33	<0.33	<0.33	<0.33
Benzo(a)anthracene	0.9 / 10.9* / 1.8	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Benzo(a)pyrene	0.09 / 11.4* / 2.1	17	---	0.09	---	<0.09	<0.09	<0.09	<b>0.203</b>
Benzo(b)fluoranthene	0.9 / 13.1* / 2.1	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Benzo(k)fluoranthene	9	1,700	---	9	---	<0.33	<0.33	<0.33	<0.33
Benzo(g,h,i)perylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Chrysene	88	17,000	---	88	---	<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
Dibenzofuran	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<b>0.442</b>
Fluorene	560	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Indeno(1,2,3-cd)pyrene	0.9 / 5.77* / 1.6	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<b>0.378</b>
<b>Total Metals, mg/kg</b>									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	<b>6.3</b>	<b>3.6</b>	<b>6.8</b>	<b>3.6</b>
Barium	1,500	14,000	870,000	5,500	690,000	<b>136</b>	<b>71.3</b>	<b>133</b>	<b>55.2</b>
Beryllium	22	410	44,000	160	1,300	<b>1</b>	<b>0.6</b>	<b>0.8</b>	<b>0.7</b>
Cadmium	5.2	200	59,000	78	1,800	<0.5	<b>0.6</b>	<b>0.6</b>	<b>0.7</b>
Calcium	---	---	---	---	---	<b>6210</b>	<b>61300</b>	<b>4270</b>	<b>8450</b>
Chromium	21	4100	690	230	270	<b>21.5</b>	<b>18.3</b>	<b>23.9</b>	<b>17.2</b>
Cobalt	20	12000	---	4,700	---	<b>11.5</b>	<b>7.5</b>	<b>12.8</b>	<b>6.7</b>
Copper	2,900	8,200	---	2,900	---	<b>22.8</b>	<b>18.6</b>	<b>27.5</b>	<b>30.6</b>
Iron	15,000 / 15,900	---	---	---	---	<b>22800</b>	<b>18700</b>	<b>25600</b>	<b>15400</b>
Lead	107	700	---	400	---	<b>29.4</b>	<b>11.8</b>	<b>24</b>	<b>60</b>
Magnesium	325,000	730,000	---	325,000	---	<b>4320</b>	<b>18900</b>	<b>4250</b>	<b>6030</b>
Manganese	630 / 636	4100	8,700	1,600	---	<b>415</b>	<b>246</b>	<b>435</b>	<b>105</b>
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<b>0.05</b>
Nickel	100	4100	440,000	1,600	13,000	<b>22.9</b>	<b>23.8</b>	<b>27.3</b>	<b>23.1</b>
Potassium	---	---	---	---	---	<b>2000</b>	<b>1560</b>	<b>1880</b>	<b>1740</b>
Silver	4.4	1000	---	390	---	<b>0.3</b>	<b>0.2</b>	<b>0.3</b>	<b>0.2</b>
Sodium	---	---	---	---	---	<b>2010</b>	<b>1690</b>	<b>2090</b>	<b>3810</b>
Vanadium	550	1400	---	550	---	<b>34.3</b>	<b>24.2</b>	<b>37.6</b>	<b>24.7</b>
Zinc	5,100	61,000	---	23,000	---	<b>67.8</b>	<b>37.4</b>	<b>63.1</b>	<b>79.4</b>
<b>TCLP Metals, mg/L</b>			Class I Groundwater <sup>d/</sup>						
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Iron			5			<0.1	<0.1	<0.1	<0.1
Lead			0.0075			<0.005	<0.005	<0.005	<0.005
Manganese			0.15			<b>0.37</b>	<b>3.67</b>	<b>0.35</b>	<b>0.81</b>
Selenium			0.05			<0.010	<b>0.01</b>	<0.010	<0.010
Zinc			5			<0.1	<0.1	<0.1	<0.1
<b>SPLP Metals, mg/L</b>			Class I Groundwater <sup>d/</sup>						
Arsenic			0.05			<0.010	<b>0.015</b>	<b>0.015</b>	<b>0.022</b>
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<b>0.006</b>	<0.004
Cadmium			0.005			<0.005	<0.005	<b>0.005</b>	<0.005
Chromium			0.1			<b>0.077</b>	<b>0.061</b>	<b>0.149</b>	<b>0.069</b>
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			<b>0.06</b>	<b>0.054</b>	<b>0.121</b>	<b>0.061</b>
Iron			5			<b>66.7</b>	<b>56.4</b>	<b>132</b>	<b>56.8</b>
Lead			0.0075			<b>0.029</b>	<b>0.021</b>	<b>0.051</b>	<b>0.159</b>
Manganese			0.15			<b>0.36</b>	<b>0.36</b>	<b>0.59</b>	<b>0.25</b>
Nickel			0.1			<0.1	<0.1	<b>0.1</b>	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Zinc			5			<b>0.2</b>	<b>0.1</b>	<b>0.3</b>	<b>0.3</b>

--- Refers to not applicable or value not available

<sup>a/</sup> 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.

<sup>b/</sup> Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

<sup>c/</sup> Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

<sup>d/</sup> 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.

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



Soils for Reuse or Disposal at CCDD Facilities in MSA County Including Chgo

FAU 1504 (55th Street)

Countryside, Cook County, Illinois

BDE Sequence No.: 12403D

PTB: 199-014/HH-2, Work Order No.: 39A

Boring ID	Soil Reference Concentrations <sup>a/</sup>	Soil Remediation Objective for Construction Workers <sup>b/</sup>		Soil Remediation Objective for Residential Exposure <sup>c/</sup>		DUP-09 (1560V3-83-01)	1560V3-83-01	1560V3-84-01	1560V3-84-01
						(0-3)	(3-6)	(0-4)	(4-8)
Sample Depth, ft	Sample Date					7/12/2024	7/12/2024	7/11/2024	7/11/2024
Excavation Area(s) ID		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	1560V3-83		1560V3-84	
<b>Parameter</b>									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	7.96	8.48	8.01	8.25
PID Readings (ppm)						0.0	0.0	0.0	0.0
<b>VOCs, mg/kg</b>									
Acetone	25	---	100,000	70,000	100,000	<b>0.279</b>	<0.2	<0.2	<0.2
Benzene	0.03	2,300	2.2	12	0.8	<0.005	<0.005	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<b>0.0247</b>	<0.005	<0.005	<0.005
Ethylbenzene	13	20,000	58	7,800	400	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005
Xylenes, Total	5.6	41,000	5.6	16,000	320	<0.005	<0.005	<0.005	<0.005
<b>SVOCs, mg/kg</b>									
Acenaphthene	570	120,000	---	4,700	---	<0.33	<0.33	<0.33	<0.33
Acenaphthylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Anthracene	12,000	610,000	---	23,000	---	<0.33	<0.33	<0.33	<0.33
Benzo(a)anthracene	0.9 / 10.9* / 1.8	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Benzo(a)pyrene	0.09 / 11.4* / 2.1	17	---	0.09	---	<b>0.237</b>	<0.09	<0.09	<0.09
Benzo(b)fluoranthene	0.9 / 13.1* / 2.1	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Benzo(k)fluoranthene	9	1,700	---	9	---	<0.33	<0.33	<0.33	<0.33
Benzo(g,h,i)perylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Chrysene	88	17,000	---	88	---	<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
Dibenzofuran	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Fluoranthene	3,100	82,000	---	3,100	---	<b>0.594</b>	<0.33	<0.33	<0.33
Fluorene	560	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Indeno(1,2,3-cd)pyrene	0.9 / 5.77* / 1.6	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<b>0.378</b>	<0.33	<0.33	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<b>0.477</b>	<0.33	<0.33	<0.33
<b>Total Metals, mg/kg</b>									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	<b>4.6</b>	<b>7.6</b>	<b>4.4</b>	<b>4.5</b>
Barium	1,500	14,000	870,000	5,500	690,000	<b>124</b>	<b>75.4</b>	<b>96.1</b>	<b>96.1</b>
Beryllium	22	410	44,000	160	1,300	<b>0.8</b>	<b>0.6</b>	<b>0.7</b>	<b>0.7</b>
Cadmium	5.2	200	59,000	78	1,800	<b>0.5</b>	<b>0.5</b>	<b>0.7</b>	<b>0.7</b>
Calcium	---	---	---	---	---	<b>8130</b>	<b>25700</b>	<b>30300</b>	<b>2940</b>
Chromium	21	4100	690	230	270	<b>19.4</b>	<b>18.6</b>	<b>18</b>	<b>24.1</b>
Cobalt	20	12000	---	4,700	---	<b>9.9</b>	<b>11.4</b>	<b>7</b>	<b>11.4</b>
Copper	2,900	8,200	---	2,900	---	<b>21.2</b>	<b>35.5</b>	<b>26.6</b>	<b>26.4</b>
Iron	15,000 / 15,900	---	---	---	---	<b>20000</b>	<b>21800</b>	<b>18300</b>	<b>26100</b>
Lead	107	700	---	400	---	<b>42.3</b>	<b>14.8</b>	<b>54.3</b>	<b>11.4</b>
Magnesium	325,000	730,000	---	325,000	---	<b>6340</b>	<b>14500</b>	<b>19000</b>	<b>5380</b>
Manganese	630 / 636	4100	8,700	1,600	---	<b>178</b>	<b>566</b>	<b>185</b>	<b>358</b>
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	<b>25.5</b>	<b>31.9</b>	<b>19.8</b>	<b>34.5</b>
Potassium	---	---	---	---	---	<b>1940</b>	<b>1530</b>	<b>1820</b>	<b>1790</b>
Silver	4.4	1000	---	390	---	<b>0.3</b>	<b>0.2</b>	<b>0.2</b>	<b>0.3</b>
Sodium	---	---	---	---	---	<b>4230</b>	<b>2600</b>	<b>2100</b>	<b>1990</b>
Vanadium	550	1400	---	550	---	<b>31.7</b>	<b>26.6</b>	<b>25.5</b>	<b>31.7</b>
Zinc	5,100	61,000	---	23,000	---	<b>53.2</b>	<b>43.5</b>	<b>69.9</b>	<b>58.8</b>
<b>TCLP Metals, mg/L</b>									
Class I Groundwater <sup>d/</sup>									
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Iron			5			<b>0.3</b>	<0.1	<0.1	<b>0.3</b>
Lead			0.0075			<b>0.024</b>	<0.005	<b>0.01</b>	<0.005
Manganese			0.15			<b>2.24</b>	<b>3.68</b>	<b>1.59</b>	<b>1.33</b>
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Zinc			5			<0.1	<0.1	<0.1	<0.1
<b>SPLP Metals, mg/L</b>									
Class I Groundwater <sup>d/</sup>									
Arsenic			0.05			<b>0.016</b>	<b>0.014</b>	<0.010	<b>0.024</b>
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<b>0.005</b>
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<b>0.106</b>	<b>0.069</b>	<b>0.049</b>	<b>0.132</b>
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			<b>0.055</b>	<b>0.059</b>	<b>0.04</b>	<b>0.116</b>
Iron			5			<b>88.6</b>	<b>61</b>	<b>41.3</b>	<b>121</b>
Lead			0.0075			<b>0.056</b>	<b>0.03</b>	<b>0.065</b>	<b>0.042</b>
Manganese			0.15			<b>0.52</b>	<b>0.41</b>	<b>0.24</b>	<b>1.23</b>
Nickel			0.1			<0.1	<0.1	<0.1	<b>0.2</b>
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Zinc			5			<b>0.2</b>	<b>0.1</b>	<b>0.2</b>	<b>0.2</b>

--- Refers to not applicable or value not available

<sup>a/</sup> 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.

<sup>b/</sup> Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

<sup>c/</sup> Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

<sup>d/</sup> 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.

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

LPC-663 (Page 28 of 30)  
 Soils for Reuse or Disposal at CCDD Facilities in MSA County Including Chgo  
 FAU 1504 (55th Street)  
 Countryside, Cook County, Illinois  
 BDE Sequence No.: 12403D  
 PTB: 199-014/HH-2, Work Order No.: 39A

Boring ID	Soil Reference Concentrations <sup>a/</sup>	Soil Remediation Objective for Construction Workers <sup>b/</sup>		Soil Remediation Objective for Residential Exposure <sup>c/</sup>		1560V3-84-02	1560V3-84-02	1560V3-84-04	1560V3-84-04
						(0-4)	(4-8)	(0-4)	(4-8)
Sample Depth, ft	Sample Date					7/11/2024	7/11/2024	7/11/2024	7/11/2024
Excavation Area(s) ID		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	1560V3-84			
Parameter									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.64	8.3	8.11	8.67
PID Readings (ppm)						0.0	<b>0.2</b>	0.0	<b>0.1</b>
<b>VOCs, mg/kg</b>									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Benzene	0.03	2,300	2.2	12	0.8	<0.005	<0.005	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<b>0.0121</b>	<0.005
Ethylbenzene	13	20,000	58	7,800	400	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<b>0.0057</b>	<0.005
Xylenes, Total	5.6	41,000	5.6	16,000	320	<0.005	<0.005	<0.005	<0.005
<b>SVOCs, mg/kg</b>									
Acenaphthene	570	120,000	---	4,700	---	<0.33	<0.33	<0.33	<0.33
Acenaphthylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Anthracene	12,000	610,000	---	23,000	---	<0.33	<0.33	<0.33	<0.33
Benzo(a)anthracene	0.9 / 10.9* / 1.8	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Benzo(a)pyrene	0.09 / 11.4* / 2.1	17	---	0.09	---	<b>0.093</b>	<0.09	<b>0.165</b>	<0.09
Benzo(b)fluoranthene	0.9 / 13.1* / 2.1	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Benzo(k)fluoranthene	9	1,700	---	9	---	<0.33	<0.33	<0.33	<0.33
Benzo(g,h,i)perylene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Chrysene	88	17,000	---	88	---	<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
Dibenzofuran	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Fluorene	560	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Indeno(1,2,3-cd)pyrene	0.9 / 5.77* / 1.6	170	---	0.9	---	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33
<b>Total Metals, mg/kg</b>									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	<b>9.8</b>	<b>6.1</b>	<b>6.8</b>	<b>4.8</b>
Barium	1,500	14,000	870,000	5,500	690,000	<b>74.4</b>	<b>88.5</b>	<b>66.3</b>	<b>64.1</b>
Beryllium	22	410	44,000	160	1,300	<b>0.7</b>	<b>0.8</b>	<b>0.5</b>	<0.5
Cadmium	5.2	200	59,000	78	1,800	<b>0.8</b>	<b>0.5</b>	<b>1.7</b>	<0.5
Calcium	---	---	---	---	---	<b>26100</b>	<b>2360</b>	<b>45400</b>	<b>48400</b>
Chromium	21	4100	690	230	270	<b>20.6</b>	<b>20.8</b>	<b>15.4</b>	<b>17.6</b>
Cobalt	20	12000	---	4,700	---	<b>13.4</b>	<b>11.5</b>	<b>7.1</b>	<b>9.7</b>
Copper	2,900	8,200	---	2,900	---	<b>34.5</b>	<b>13.2</b>	<b>26.7</b>	<b>18.9</b>
Iron	15,000 / 15,900	---	---	---	---	<b>24600</b>	<b>23800</b>	<b>18100</b>	<b>18800</b>
Lead	107	700	---	400	---	<b>60.1</b>	<b>14</b>	<b>59.8</b>	<b>9.2</b>
Magnesium	325,000	730,000	---	325,000	---	<b>16100</b>	<b>4540</b>	<b>28500</b>	<b>21000</b>
Manganese	630 / 636	4100	8,700	1,600	---	<b>599</b>	<b>324</b>	<b>321</b>	<b>329</b>
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	<b>33</b>	<b>30.5</b>	<b>20.8</b>	<b>26.5</b>
Potassium	---	---	---	---	---	<b>1900</b>	<b>1400</b>	<b>1620</b>	<b>2170</b>
Silver	4.4	1000	---	390	---	<b>0.3</b>	<b>0.3</b>	<0.2	<b>0.3</b>
Sodium	---	---	---	---	---	<b>1340</b>	<b>1910</b>	<b>305</b>	<b>1100</b>
Vanadium	550	1400	---	550	---	<b>28.7</b>	<b>28.3</b>	<b>22.6</b>	<b>22.4</b>
Zinc	5,100	61,000	---	23,000	---	<b>82.6</b>	<b>59.3</b>	<b>65.8</b>	<b>42.2</b>
<b>TCLP Metals, mg/L</b>			Class I Groundwater <sup>d/</sup>						
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Iron			5			<0.1	<b>0.3</b>	<0.1	<0.1
Lead			0.0075			<b>0.006</b>	<b>0.007</b>	<0.005	<0.005
Manganese			0.15			<b>0.46</b>	<b>4.75</b>	<b>0.3</b>	<b>2.69</b>
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Zinc			5			<0.1	<0.1	<0.1	<0.1
<b>SPLP Metals, mg/L</b>			Class I Groundwater <sup>d/</sup>						
Arsenic			0.05			<b>0.039</b>	<b>0.019</b>	<0.010	<b>0.027</b>
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<b>0.105</b>	<b>0.107</b>	<b>0.03</b>	<b>0.118</b>
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			<b>0.097</b>	<b>0.065</b>	<b>0.032</b>	<b>0.097</b>
Iron			5			<b>103</b>	<b>108</b>	<b>33</b>	<b>108</b>
Lead			0.0075			<b>0.113</b>	<b>0.048</b>	<b>0.039</b>	<b>0.046</b>
Manganese			0.15			<b>0.58</b>	<b>1.13</b>	<b>0.16</b>	<b>0.66</b>
Nickel			0.1			<b>0.1</b>	<b>0.1</b>	<0.1	<b>0.1</b>
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Zinc			5			<b>0.3</b>	<b>0.2</b>	<b>0.1</b>	<b>0.2</b>

--- Refers to not applicable or value not available

<sup>a/</sup> 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.

<sup>b/</sup> Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

<sup>c/</sup> Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

<sup>d/</sup> 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.

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

LPC-663 (Page 29 of 30)  
 Soils for Reuse or Disposal at CCDD Facilities in MSA County Including Chgo  
 FAU 1504 (55th Street)  
 Countryside, Cook County, Illinois  
 BDE Sequence No.: 12403D  
 PTB: 199-014/HH-2, Work Order No.: 39A

Boring ID	Soil Reference Concentrations <sup>a/</sup>	Soil Remediation Objective for Construction Workers <sup>b/</sup>		Soil Remediation Objective for Residential Exposure <sup>c/</sup>		1560V3-85-03	1560V3-85-03	1560V3-86-01	1560V3-87-03
						(0-3)	(3-5)	(0-4)	(0-5)
Sample Depth, ft	Sample Date					7/11/2024	7/11/2024	7/11/2024	7/11/2024
Excavation Area(s) ID		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	1560V3-85-03		1560V3-86	1560V3-87-03
<b>Parameter</b>									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.09	8.78	8.75	8.84
PID Readings (ppm)						0.0	0.0	0.0	0.0
<b>VOCS, mg/kg</b>									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Benzene	0.03	2,300	2.2	12	0.8	<0.005	<0.005	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	13	20,000	58	7,800	400	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005
Xylenes, Total	5.6	41,000	5.6	16,000	320	<0.005	<0.005	<0.005	<0.005
<b>SVOCS, mg/kg</b>									
Acenaphthene	570	120,000	---	4,700	---	<0.33	<0.33	<0.33	<0.33
Acenaphthylene	---	---	---	---	---	<0.33	<0.33	<b>0.745</b>	<0.33
Anthracene	12,000	610,000	---	23,000	---	<0.33	<0.33	<b>0.626</b>	<0.33
Benzo(a)anthracene	0.9 / 10.9* / 1.8	170	---	0.9	---	<0.33	<0.33	<b>1.4</b>	<0.33
Benzo(a)pyrene	0.09 / 11.4* / 2.1	17	---	0.09	---	<0.09	<0.09	<b>1.25</b>	<b>0.132</b>
Benzo(b)fluoranthene	0.9 / 13.1* / 2.1	170	---	0.9	---	<0.33	<0.33	<b>1.53</b>	<0.33
Benzo(k)fluoranthene	9	1,700	---	9	---	<0.33	<0.33	<b>0.614</b>	<0.33
Benzo(g,h,i)perylene	---	---	---	---	---	<0.33	<0.33	<b>0.76</b>	<0.33
Chrysene	88	17,000	---	88	---	<0.33	<0.33	<b>1.34</b>	<0.33
Dibenz(a,h)anthracene	0.09 / 1.03* / 0.42	17	---	0.09	---	<0.09	<0.09	<b>0.205</b>	<0.09
Dibenzofuran	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<b>2.82</b>	<0.33
Fluorene	560	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Indeno(1,2,3-cd)pyrene	0.9 / 5.77* / 1.6	170	---	0.9	---	<0.33	<0.33	<b>0.821</b>	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<b>2.12</b>	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<b>2.52</b>	<0.33
<b>Total Metals, mg/kg</b>									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	<b>7.4</b>	<b>2.6</b>	<b>3.8</b>	<b>7.3</b>
Barium	1,500	14,000	870,000	5,500	690,000	<b>93.8</b>	<b>36.2</b>	<b>99</b>	<b>72.6</b>
Beryllium	22	410	44,000	160	1,300	<b>0.5</b>	<0.5	<b>0.7</b>	<0.5
Cadmium	5.2	200	59,000	78	1,800	<b>0.8</b>	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	<b>70900</b>	<b>100000</b>	<b>42800</b>	<b>46200</b>
Chromium	21	4100	690	230	270	<b>16.5</b>	<b>12.5</b>	<b>20.6</b>	<b>18.7</b>
Cobalt	20	12000	---	4,700	---	<b>7.9</b>	<b>5.6</b>	<b>8.8</b>	<b>9.1</b>
Copper	2,900	8,200	---	2,900	---	<b>28.2</b>	<b>11.5</b>	<b>23</b>	<b>29.7</b>
Iron	15,000 / 15,900	---	---	---	---	<b>18000</b>	<b>10800</b>	<b>17800</b>	<b>19200</b>
Lead	107	700	---	400	---	<b>147</b>	<b>7</b>	<b>75</b>	<b>54.8</b>
Magnesium	325,000	730,000	---	325,000	---	<b>43600</b>	<b>30700</b>	<b>25800</b>	<b>26700</b>
Manganese	630 / 636	4100	8,700	1,600	---	<b>443</b>	<b>240</b>	<b>313</b>	<b>337</b>
Mercury	0.89	61	0.1	23	10	<b>0.07</b>	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	<b>17.6</b>	<b>14.7</b>	<b>21.7</b>	<b>24.3</b>
Potassium	---	---	---	---	---	<b>1950</b>	<b>1490</b>	<b>2070</b>	<b>1710</b>
Silver	4.4	1000	---	390	---	<b>0.2</b>	<0.2	<b>0.2</b>	<0.2
Sodium	---	---	---	---	---	<b>1440</b>	<b>901</b>	<b>1850</b>	<b>902</b>
Vanadium	550	1400	---	550	---	<b>23.2</b>	<b>16.8</b>	<b>29.3</b>	<b>24.7</b>
Zinc	5,100	61,000	---	23,000	---	<b>203</b>	<b>23.2</b>	<b>89.6</b>	<b>69.4</b>
<b>TCLP Metals, mg/L</b>		Class I Groundwater <sup>d/</sup>							
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<b>1.2</b>
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Iron			5			<0.1	<0.1	<0.1	<0.1
Lead			0.0075			<b>0.006</b>	<0.005	<b>0.006</b>	<0.005
Manganese			0.15			<b>0.61</b>	<b>2.1</b>	<b>0.11</b>	<b>0.72</b>
Selenium			0.05			<0.010	<0.010	<0.010	<b>0.011</b>
Zinc			5			<b>0.2</b>	<0.1	<0.1	<0.1
<b>SPLP Metals, mg/L</b>		Class I Groundwater <sup>d/</sup>							
Arsenic			0.05			<b>0.012</b>	<0.010	<b>0.01</b>	<b>0.013</b>
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<b>0.059</b>	<b>0.029</b>	<b>0.055</b>	<b>0.044</b>
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			<b>0.061</b>	<b>0.02</b>	<b>0.048</b>	<b>0.044</b>
Iron			5			<b>48.3</b>	<b>22.6</b>	<b>45.2</b>	<b>49.5</b>
Lead			0.0075			<b>0.252</b>	<b>0.008</b>	<b>0.183</b>	<b>0.03</b>
Manganese			0.15			<b>0.43</b>	<b>0.17</b>	<b>0.34</b>	<b>0.32</b>
Nickel			0.1			<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Zinc			5			<b>0.9</b>	<0.1	<b>0.3</b>	<b>0.1</b>

--- Refers to not applicable or value not available

<sup>a/</sup> 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.

<sup>b/</sup> Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

<sup>c/</sup> Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

<sup>d/</sup> 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.

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

LPC-663 (Page 30 of 30)  
 Soils for Reuse or Disposal at CCDD Facilities in MSA County Including Chgo  
 FAU 1504 (55th Street)  
 Countryside, Cook County, Illinois  
 BDE Sequence No.: 12403D  
 PTB: 199-014/HH-2, Work Order No.: 39A

Boring ID	Soil Reference Concentrations <sup>a/</sup>	Soil Remediation Objective for Construction Workers <sup>b/</sup>		Soil Remediation Objective for Residential Exposure <sup>c/</sup>		1560V3-88-01	1560V3-88-02
						(0-5)	(0-5)
Sample Depth, ft						7/11/2024	7/11/2024
Sample Date						1560V3-88	
Excavation Area(s) ID		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route		
Parameter							
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	7.87	8.68
PID Readings (ppm)						0.0	0.0
<b>VOCs, mg/kg</b>							
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2
Benzene	0.03	2,300	2.2	12	0.8	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005
Ethylbenzene	13	20,000	58	7,800	400	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005
Xylenes, Total	5.6	41,000	5.6	16,000	320	<0.005	<0.005
<b>SVOCs, mg/kg</b>							
Acenaphthene	570	120,000	---	4,700	---	<0.33	<0.33
Acenaphthylene	---	---	---	---	---	<0.33	<0.33
Anthracene	12,000	610,000	---	23,000	---	<0.33	<0.33
Benzo(a)anthracene	0.9 / 10.9* / 1.8	170	---	0.9	---	<0.33	<b>0.383</b>
Benzo(a)pyrene	0.09 / 11.4* / 2.1	17	---	0.09	---	<b>0.24</b>	<b>0.399</b>
Benzo(b)fluoranthene	0.9 / 13.1* / 2.1	170	---	0.9	---	<b>0.366</b>	<b>0.662</b>
Benzo(k)fluoranthene	9	1,700	---	9	---	<0.33	<0.33
Benzo(g,h,i)perylene	---	---	---	---	---	<0.33	<b>0.374</b>
Chrysene	88	17,000	---	88	---	<0.33	<b>0.468</b>
Dibenz(a,h)anthracene	0.09 / 1.03* / 0.42	17	---	0.09	---	<0.09	<0.09
Dibenzofuran	---	---	---	---	---	<0.33	<0.33
Fluoranthene	3,100	82,000	---	3,100	---	<b>0.416</b>	<b>0.764</b>
Fluorene	560	82,000	---	3,100	---	<0.33	<0.33
Indeno(1,2,3-cd)pyrene	0.9 / 5.77* / 1.6	170	---	0.9	---	<0.33	<b>0.373</b>
Phenanthrene	---	---	---	---	---	<0.33	<b>0.352</b>
Pyrene	2,300	61,000	61,000	2,300	---	<b>0.392</b>	<b>0.729</b>
<b>Total Metals, mg/kg</b>							
Antimony	5	82	---	31	---	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	<b>7.3</b>	<b>6.3</b>
Barium	1,500	14,000	870,000	5,500	690,000	<b>104</b>	<b>122</b>
Beryllium	22	410	44,000	160	1,300	<b>0.7</b>	<b>0.7</b>
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5
Calcium	---	---	---	---	---	<b>7940</b>	<b>13200</b>
Chromium	21	4100	690	230	270	<b>19.3</b>	<b>19.9</b>
Cobalt	20	12000	---	4,700	---	<b>9.7</b>	<b>9.8</b>
Copper	2,900	8,200	---	2,900	---	<b>26.9</b>	<b>26.7</b>
Iron	15,000 / 15,900	---	---	---	---	<b>20000</b>	<b>19600</b>
Lead	107	700	---	400	---	<b>75.1</b>	<b>107</b>
Magnesium	325,000	730,000	---	325,000	---	<b>5580</b>	<b>8280</b>
Manganese	630 / 636	4100	8,700	1,600	---	<b>379</b>	<b>426</b>
Mercury	0.89	61	0.1	23	10	<0.05	<b>0.08</b>
Nickel	100	4100	440,000	1,600	13,000	<b>23</b>	<b>27.6</b>
Potassium	---	---	---	---	---	<b>1800</b>	<b>1980</b>
Silver	4.4	1000	---	390	---	<0.2	<b>0.2</b>
Sodium	---	---	---	---	---	<b>332</b>	<b>1190</b>
Vanadium	550	1400	---	550	---	<b>29.1</b>	<b>29.3</b>
Zinc	5,100	61,000	---	23,000	---	<b>83.7</b>	<b>119</b>
<b>TCLP Metals, mg/L</b>		Class I Groundwater <sup>d/</sup>					
Arsenic			0.05			<0.010	<0.010
Barium			2			<1.0	<1.0
Cadmium			0.005			<0.005	<0.005
Iron			5			<0.1	<0.1
Lead			0.0075			<0.005	<b>0.012</b>
Manganese			0.15			<0.10	<b>0.15</b>
Selenium			0.05			<0.010	<0.010
Zinc			5			<0.1	<0.1
<b>SPLP Metals, mg/L</b>		Class I Groundwater <sup>d/</sup>					
Arsenic			0.05			<b>0.021</b>	<0.010
Barium			2			<1.0	<1.0
Beryllium			0.004			<b>0.005</b>	<0.004
Cadmium			0.005			<0.005	<0.005
Chromium			0.1			<b>0.132</b>	<b>0.062</b>
Cobalt			1			<0.1	<0.1
Copper			0.65			<b>0.13</b>	<b>0.085</b>
Iron			5			<b>128</b>	<b>46.1</b>
Lead			0.0075			<b>0.058</b>	<b>0.196</b>
Manganese			0.15			<b>0.65</b>	<b>0.21</b>
Nickel			0.1			<b>0.1</b>	<0.1
Selenium			0.05			<0.010	<0.010
Zinc			5			<b>0.4</b>	<b>0.3</b>

--- Refers to not applicable or value not available

<sup>a/</sup> 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.

<sup>b/</sup> Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

<sup>c/</sup> Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

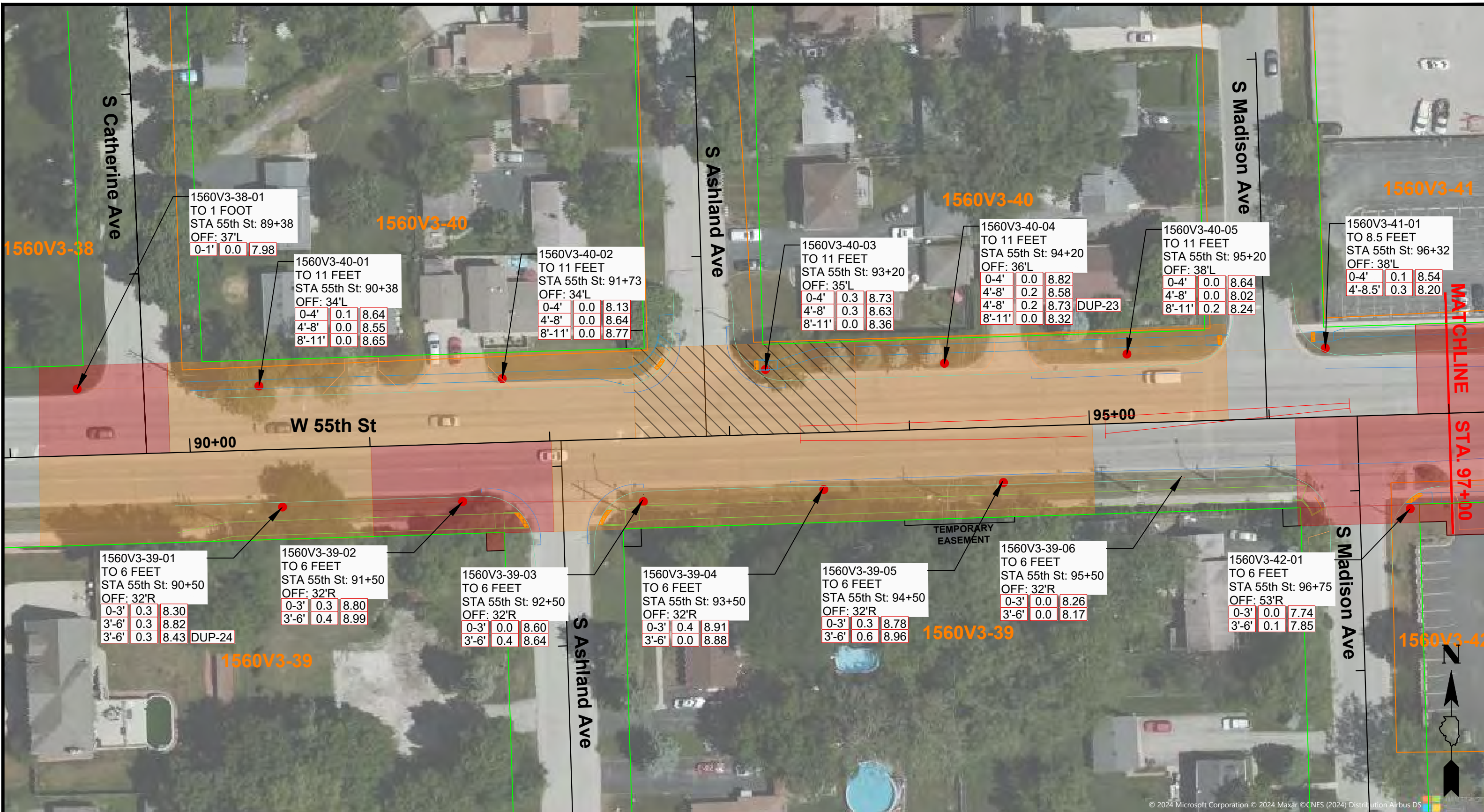
<sup>d/</sup> Soil Remediation Objective for the Groundwater Component of the Groundwater Ingestion Route, Class I Groundwater

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

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



**LEGEND**

	669.05(a)(1)		Soil Boring Location		Proposed ROW
	669.05(a)(2)		Project Area of Planned Improvement		ROW
	669.05(a)(3)		PESA Site		
	669.05(a)(5)		PID Exceeds background level or pH is outside acceptable range for CCDD disposal		
	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.

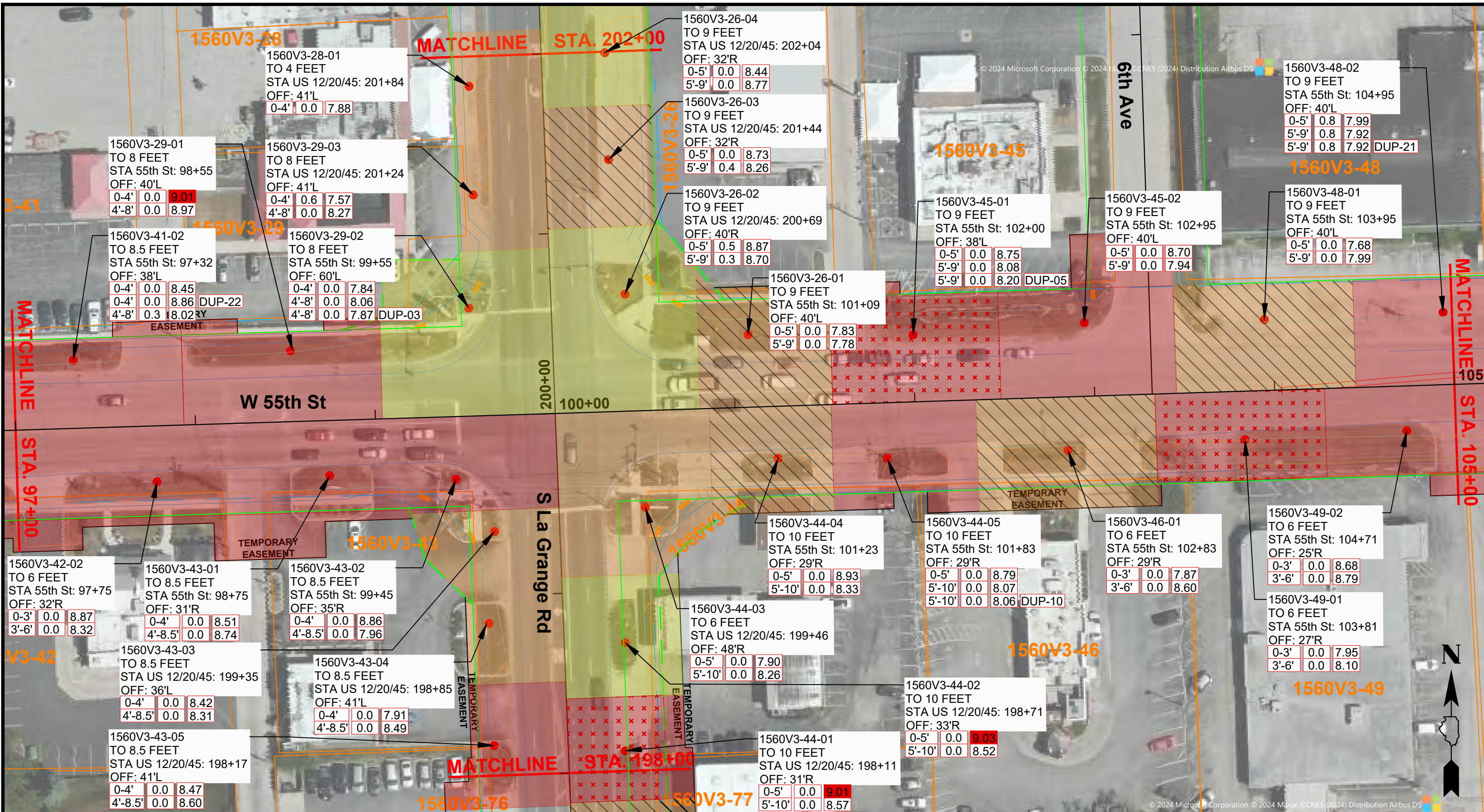
**W.O. Number: 39A**

Data Source: "As Noted"	
Contract Number: 199-014	BDE Sequence #: 12403D
PESA: 1560V4	Route: FAU 1504
IDOT Job Number: D-91-117-19	
City/County: COUNTRYSIDE, COOK	
Designed By: NZL	
Drawn By: DMG	
Checked By: SC	
Approved By: SC	
Date: 8-15-2024	

0' 50' 100'  
Feet

**Huff & Huff, Inc**

FIGURE 4-1.1  
REGULATED SUBSTANCE MANAGEMENT AREA  
IDOT WO#39A  
FAU 1504 (55th Street) From  
US 12/20/45 to East Ave  
COUNTRYSIDE, COOK COUNTY, ILLINOIS



LEGEND	
<span style="color: red;">●</span>	Soil Boring Location
<span style="border: 1px solid red; padding: 2px;"> </span>	Project Area of Planned Improvement
<span style="border: 1px solid orange; padding: 2px;"> </span>	PESA Site
<span style="border: 1px solid yellow; padding: 2px;"> </span>	669.05(a)(1)
<span style="border: 1px solid orange; padding: 2px;"> </span>	669.05(a)(2)
<span style="border: 1px solid yellow; padding: 2px;"> </span>	669.05(a)(3)
<span style="border: 1px solid red; padding: 2px;"> </span>	669.05(a)(5)
<span style="border: 1px dashed red; padding: 2px;"> </span>	WORK ZONE
<span style="border: 1px solid red; padding: 2px;"> </span>	PID
<span style="border: 1px solid red; padding: 2px;"> </span>	pH
<span style="border: 1px solid red; padding: 2px;"> </span>	#=## PID pH
<span style="border: 1px solid green; padding: 2px;"> </span>	Proposed ROW
<span style="border: 1px solid green; padding: 2px;"> </span>	ROW

**NOTES:**

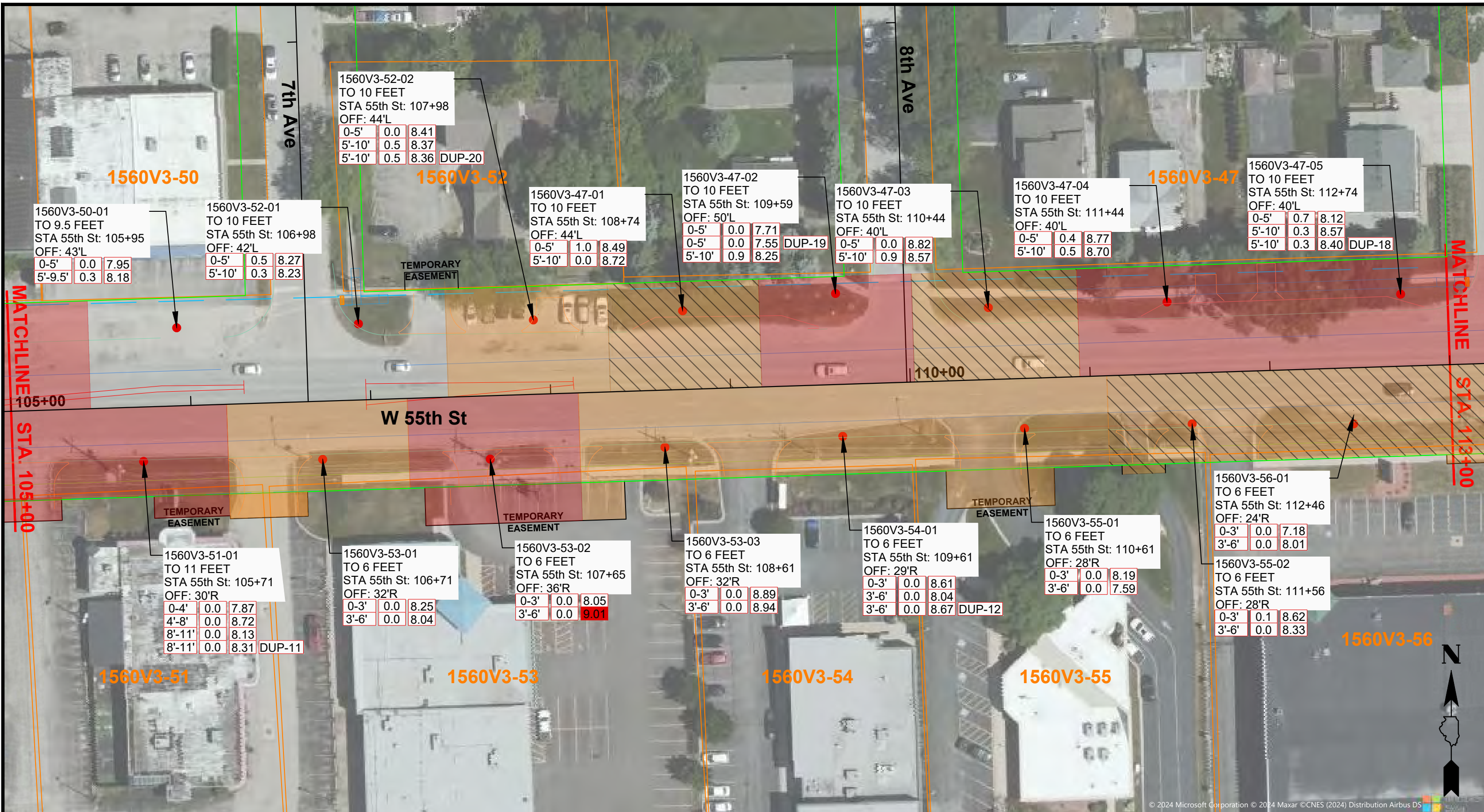
- ADDITIONAL DETAIL AND INFORMATION REGARDING REGULATED SUBSTANCES MANAGEMENT AND DISPOSAL CLASSIFICATIONS CAN BE FOUND IN THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (SSRBC) SECTION 669.05.
- THIS FIGURE RELIES ON COLOR CODE DEPICTIONS FOR SOIL MANAGEMENT. PLEASE CONTACT THE DESU OR AE FOR ASSISTANCE.

W.O. Number: 39A	
Data Source: "As Noted"	
Contract Number: 199-014	BDE Sequence #: 12403D
PESA: 1560V4	Route: FAU 1504
IDOT Job Number: D-91-117-19	
City/County: COUNTRYSIDE, COOK	
Designed By: NZL	
Drawn By: DMG	
Checked By: SC	
Approved By: SC	
Date: 8-15-2024	

0' 50' 100'  
Feet

**Huff & Huff, Inc**

FIGURE 4-1.2  
REGULATED SUBSTANCE MANAGEMENT AREA  
IDOT WO#39A  
FAU 1504 (55th Street) From  
US 12/20/45 to East Ave  
COUNTRYSIDE, COOK COUNTY, ILLINOIS



**LEGEND**

	669.05(a)(1)		Soil Boring Location		Proposed ROW
	669.05(a)(2)		Project Area of Planned Improvement		ROW
	669.05(a)(3)		PESA Site		
	669.05(a)(5)		PID Exceeds background level or pH is outside acceptable range for CCDD disposal		
	WORK ZONE		#=# PID pH		

**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.

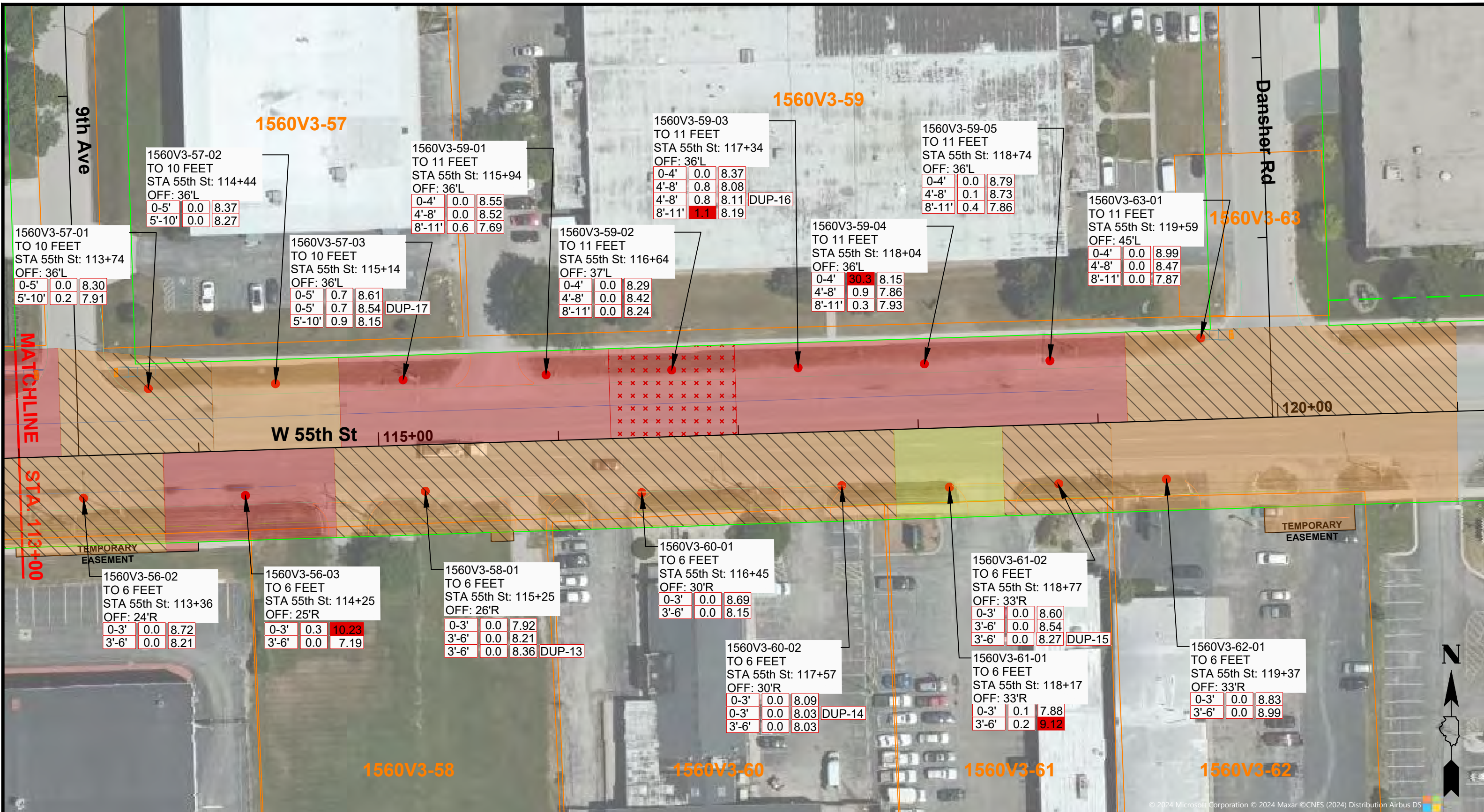
W.O. Number: 39A

Data Source: "As Noted"	
Contract Number: 199-014	BDE Sequence #: 12403D
PESA: 1560V4	Route: FAU 1504
IDOT Job Number: D-91-117-19	
City/County: COUNTRYSIDE, COOK	
Designed By: NZL	
Drawn By: DMG	
Checked By: SC	
Approved By: SC	
Date: 8-15-2024	

0' 50' 100'  
Feet

**Huff & Huff, Inc**

FIGURE 4-1.3  
REGULATED SUBSTANCE MANAGEMENT AREA  
IDOT WO#39A  
FAU 1504 (55th Street) From  
US 12/20/45 to East Ave  
COUNTRYSIDE, COOK COUNTY, ILLINOIS



**LEGEND**

	669.05(a)(1)		Soil Boring Location		Proposed ROW
	669.05(a)(2)		Project Area of Planned Improvement		ROW
	669.05(a)(3)		PESA Site		
	669.05(a)(5)	<b>PID</b> <b>pH</b>	PID Exceeds background level or pH is outside acceptable range for CCDD disposal		
	WORK ZONE	<b>#=#</b> <b>PID</b> <b>pH</b>			

**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.

W.O. Number: 39A

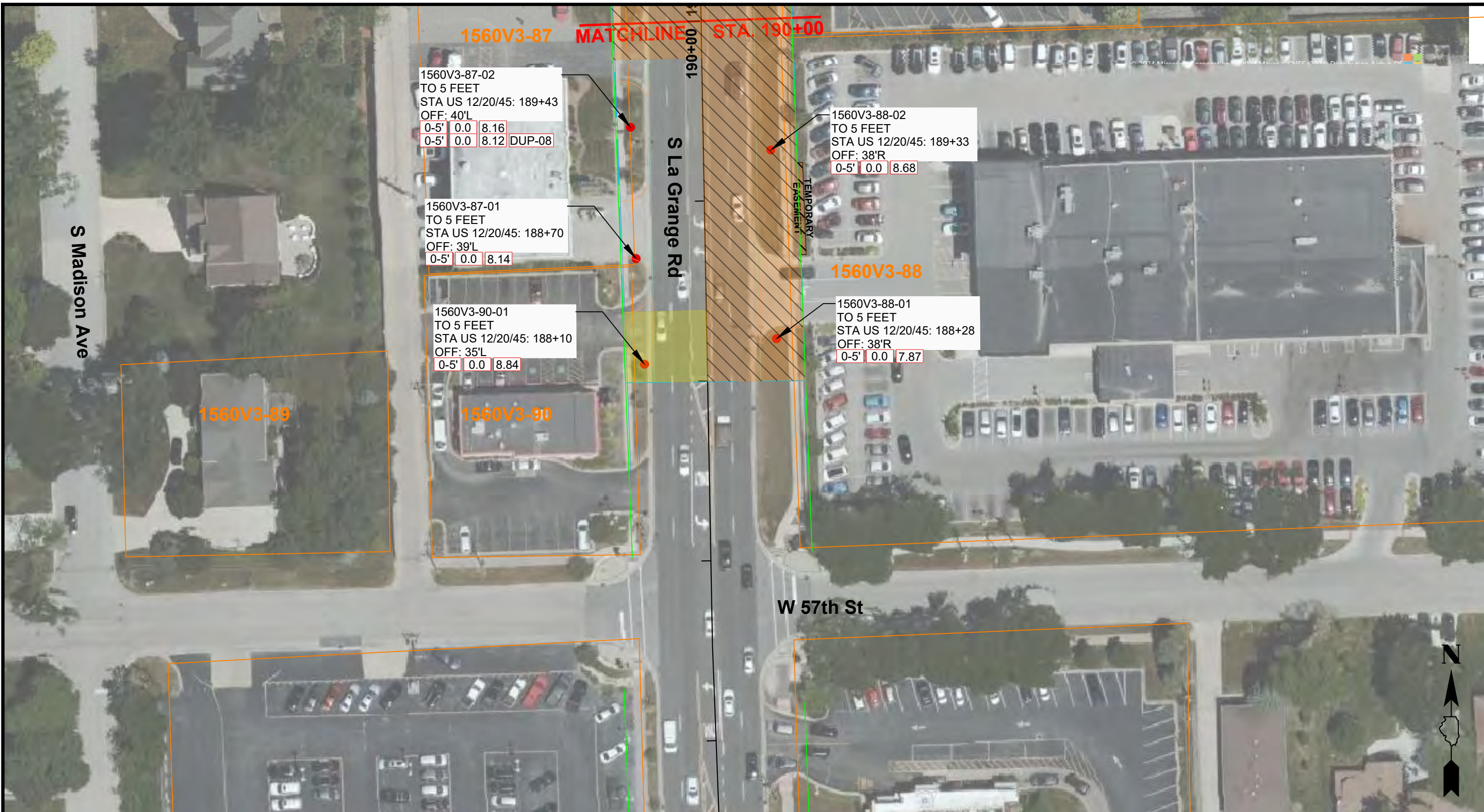
Data Source: "As Noted"	
Contract Number: 199-014	BDE Sequence #: 12403D
PESA: 1560V4	Route: FAU 1504
IDOT Job Number: D-91-117-19	
City/County: COUNTRYSIDE, COOK	
Designed By: NZL	
Drawn By: DMG	
Checked By: SC	
Approved By: SC	
Date: 8-15-2024	

0' 50' 100'  
Feet

**Huff & Huff, Inc**

FIGURE 4-1.4  
REGULATED SUBSTANCE MANAGEMENT AREA  
IDOT WO#39A  
FAU 1504 (55th Street) From  
US 12/20/45 to East Ave  
COUNTRYSIDE, COOK COUNTY, ILLINOIS





S Madison Ave

1560V3-87 MATCHLINE STA. 190+00

1560V3-87-02  
TO 5 FEET  
STA US 12/20/45: 189+43  
OFF: 40'L  
0-5' 0.0 8.16  
0-5' 0.0 8.12 DUP-08

1560V3-87-01  
TO 5 FEET  
STA US 12/20/45: 188+70  
OFF: 39'L  
0-5' 0.0 8.14

1560V3-90-01  
TO 5 FEET  
STA US 12/20/45: 188+10  
OFF: 35'L  
0-5' 0.0 8.84

1560V3-88-02  
TO 5 FEET  
STA US 12/20/45: 189+33  
OFF: 38'R  
0-5' 0.0 8.68

1560V3-88-01  
TO 5 FEET  
STA US 12/20/45: 188+28  
OFF: 38'R  
0-5' 0.0 7.87

1560V3-89

1560V3-90

1560V3-88

W 57th St

S La Grange Rd

TEMPORARY EASEMENT

LEGEND	
	669.05(a)(1)
	669.05(a)(2)
	669.05(a)(3)
	669.05(a)(5)
	WORK ZONE
	Soil Boring Location
	Project Area of Planned Improvement
	PESA Site
	PID Exceeds background level or pH is outside acceptable range for CCDD disposal
	#=# PID pH
	Proposed ROW
	ROW

**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.

W.O. Number: 39A	
Data Source: "As Noted"	
Contract Number: 199-014	BDE Sequence #: 12403D
PESA: 1560V4	Route: FAU 1504
IDOT Job Number: D-91-117-19	
City/County: COUNTRYSIDE, COOK	
Designed By: NZL	
Drawn By: DMG	
Checked By: SC	
Approved By: SC	
Date: 8-15-2024	

0' 50' 100'  
Feet

**Huff & Huff, Inc**

FIGURE 4-1.5  
 REGULATED SUBSTANCE MANAGEMENT AREA  
 IDOT WO#39A  
 FAU 1504 (55th Street) From  
 US 12/20/45 to East Ave  
 COUNTRYSIDE, COOK COUNTY, ILLINOIS



**LEGEND**

	669.05(a)(1)		Soil Boring Location
	669.05(a)(2)		Project Area of Planned Improvement
	669.05(a)(3)		PESA Site
	669.05(a)(5)		PID Exceeds background level or pH is outside acceptable range for CCDD disposal
	WORK ZONE		#=# PID pH

Proposed ROW  
 ROW

**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.

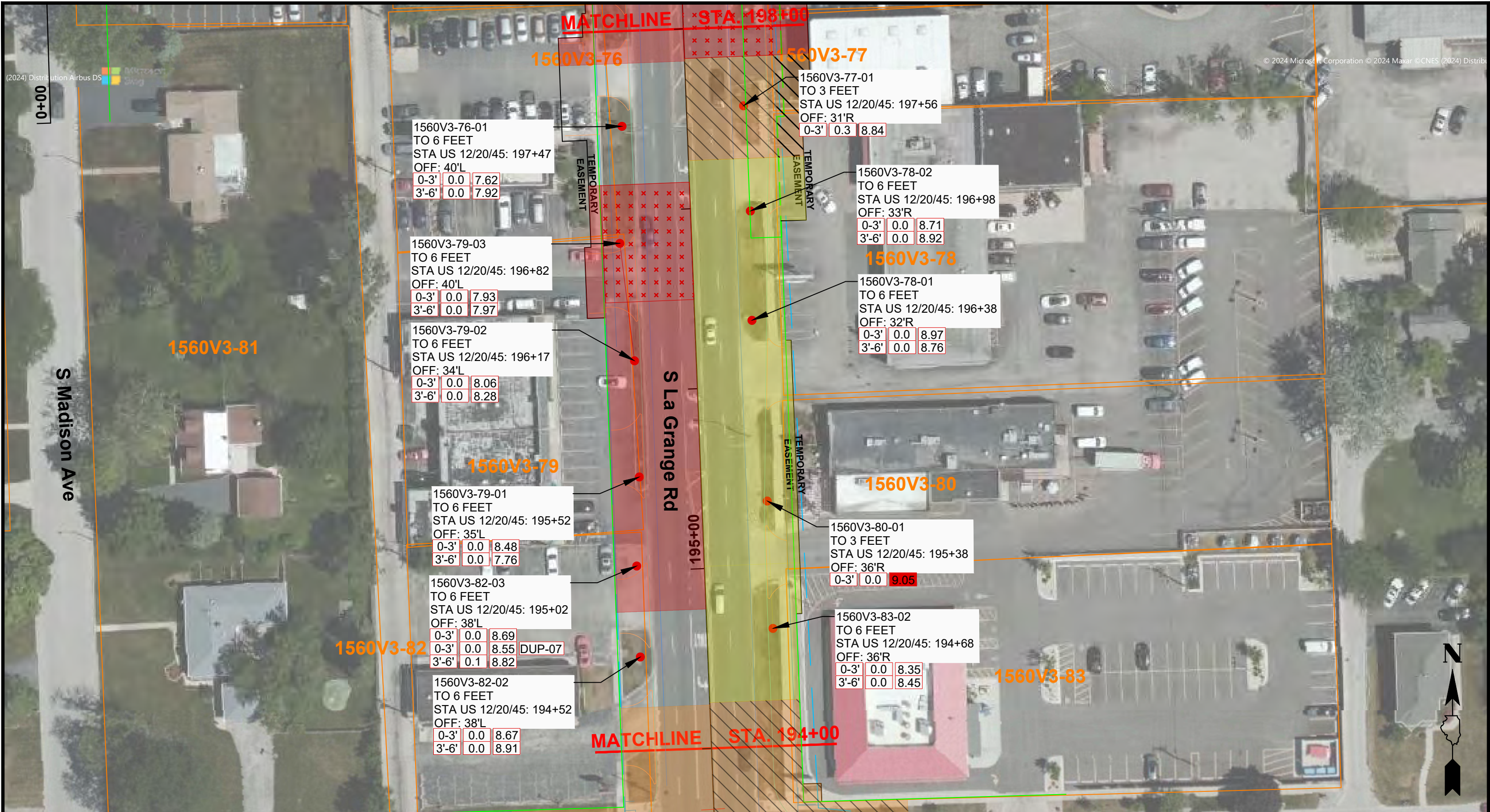
W.O. Number: 39A

Data Source: "As Noted"	
Contract Number: 199-014	BDE Sequence #: 12403D
PESA: 1560V4	Route: FAU 1504
IDOT Job Number: D-91-117-19	
City/County: COUNTRYSIDE, COOK	
Designed By: NZL	
Drawn By: DMG	
Checked By: SC	
Approved By: SC	
Date: 8-15-2024	

0' 50' 100'  
Feet

**Huff & Huff, Inc**

FIGURE 4-1.6  
REGULATED SUBSTANCE MANAGEMENT AREA  
IDOT WO#39A  
FAU 1504 (55th Street) From  
US 12/20/45 to East Ave  
COUNTRYSIDE, COOK COUNTY, ILLINOIS



LEGEND	
<span style="color: red;">●</span>	Soil Boring Location
<span style="border: 2px solid blue; padding: 2px;"> </span>	Project Area of Planned Improvement
<span style="border: 1px solid orange; padding: 2px;"> </span>	PESA Site
<span style="border: 1px solid red; padding: 2px;"> </span>	PID
<span style="border: 1px solid red; padding: 2px;"> </span>	pH
<span style="border: 1px solid red; padding: 2px;"> </span>	#=#' PID pH
<span style="border: 1px dashed red; padding: 2px;"> </span>	WORK ZONE
<span style="border-bottom: 1px solid green; width: 20px; display: inline-block;"></span>	Proposed ROW
<span style="border-bottom: 1px solid green; width: 20px; display: inline-block;"></span>	ROW

**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.

W.O. Number: 39A	
Data Source: "As Noted"	
Contract Number: 199-014	BDE Sequence #: 12403D
PESA: 1560V4	Route: FAU 1504
IDOT Job Number: D-91-117-19	
City/County: COUNTRYSIDE, COOK	
Designed By: NZL	
Drawn By: DMG	
Checked By: SC	
Approved By: SC	
Date: 8-15-2024	

0' 50' 100'  
Feet

**Huff & Huff, Inc**

FIGURE 4-1.7  
REGULATED SUBSTANCE MANAGEMENT AREA  
IDOT WO#39A  
FAU 1504 (55th Street) From  
US 12/20/45 to East Ave  
COUNTRYSIDE, COOK COUNTY, ILLINOIS



LEGEND	
	669.05(a)(1)
	669.05(a)(2)
	669.05(a)(3)
	669.05(a)(5)
	WORK ZONE
	Soil Boring Location
	Project Area of Planned Improvement
	PESA Site
	PID Exceeds background level or pH is outside acceptable range for CCDD disposal
	#=# PID pH
	Proposed ROW
	ROW

**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.

W.O. Number: 39A	
Data Source: "As Noted"	
Contract Number: 199-014	BDE Sequence #: 12403D
PESA: 1560V4	Route: FAU 1504
IDOT Job Number: D-91-117-19	
City/County: COUNTRYSIDE, COOK	
Designed By: NZL	
Drawn By: DMG	
Checked By: SC	
Approved By: SC	
Date: 8-15-2024	

0' 50' 100'  
Feet

**Huff & Huff, Inc**

FIGURE 4-1.8  
REGULATED SUBSTANCE MANAGEMENT AREA  
IDOT WO#39A  
FAU 1504 (55th Street) From  
US 12/20/45 to East Ave  
COUNTRYSIDE, COOK COUNTY, ILLINOIS



LEGEND	
<span style="color: red;">●</span>	Soil Boring Location
<span style="border: 2px solid blue; padding: 2px;"> </span>	Project Area of Planned Improvement
<span style="border: 1px solid orange; padding: 2px;"> </span>	PESA Site
<span style="background-color: yellow; border: 1px solid black; padding: 2px;"> </span>	669.05(a)(1)
<span style="background-color: orange; border: 1px solid black; padding: 2px;"> </span>	669.05(a)(2)
<span style="background-color: #f0e68c; border: 1px solid black; padding: 2px;"> </span>	669.05(a)(3)
<span style="background-color: #f08080; border: 1px solid black; padding: 2px;"> </span>	669.05(a)(5)
<span style="border: 1px dashed red; padding: 2px;"> </span>	WORK ZONE
<span style="border: 1px solid red; padding: 2px;">PID</span> <span style="border: 1px solid red; padding: 2px;">pH</span>	PID Exceeds background level or pH is outside acceptable range for CCDD disposal
<span style="border: 1px solid red; padding: 2px;">#=#</span> <span style="border: 1px solid red; padding: 2px;">PID</span> <span style="border: 1px solid red; padding: 2px;">pH</span>	

**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.

W.O. Number: 39A	
Data Source: "As Noted"	
Contract Number: 199-014	BDE Sequence #: 12403D
PESA: 1560V4	Route: FAU 1504
IDOT Job Number: D-91-117-19	
City/County: COUNTRYSIDE, COOK	
Designed By: NZL	
Drawn By: DMG	
Checked By: SC	
Approved By: SC	
Date: 8-15-2024	

0' 50' 100'  
Feet

**Huff & Huff, Inc**

FIGURE 4-1.9  
REGULATED SUBSTANCE MANAGEMENT AREA  
IDOT WO#39A  
FAU 1504 (55th Street) From  
US 12/20/45 to East Ave  
COUNTRYSIDE, COOK COUNTY, ILLINOIS



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-6-01 (0-3)  
**Sample No:** 24-5950-001

**Date Collected:** 07/09/24  
**Time Collected:** 9:30  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/11/24				
Total Solids	71.62		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/16/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-6-01 (0-3)  
**Sample No:** 24-5950-001

**Date Collected:** 07/09/24  
**Time Collected:** 9:30  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/16/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/13/24				
Preparation Date: 07/10/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-6-01 (0-3)  
**Sample No:** 24-5950-001

**Date Collected:** 07/09/24  
**Time Collected:** 9:30  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/13/24		Preparation Date: 07/10/24		
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	
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	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-6-01 (0-3)  
**Sample No:** 24-5950-001

**Date Collected:** 07/09/24  
**Time Collected:** 9:30  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/13/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/10/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/23/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 07/22/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.8	1.0	mg/kg	
Barium	134	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	0.9	0.5	mg/kg	
Calcium	5,850	50	mg/kg	
Chromium	20.7	0.5	mg/kg	
Cobalt	11.2	0.5	mg/kg	
Copper	26.1	0.5	mg/kg	
Iron	21,700	5.0	mg/kg	
Lead	24.3	0.5	mg/kg	
Magnesium	3,790	50	mg/kg	
Manganese	356	0.5	mg/kg	
Nickel	24.4	0.5	mg/kg	
Potassium	2,100	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	274	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	30.5	1.0	mg/kg	
Zinc	69.3	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/18/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/11/24 11:15				
pH @ 25°C, 1:2	7.29		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-6-01 (0-3)  
**Sample No:** 24-5950-001

**Date Collected:** 07/09/24  
**Time Collected:** 9:30  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/12/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 07/17/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/16/24				
Arsenic	0.012	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	3.76	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/17/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/12/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 07/22/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/18/24				
Arsenic	0.011	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	0.033	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.041	0.005	mg/L	
Iron	31.7	0.1	mg/L	
Lead	0.029	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-6-01 (0-3)  
**Sample No:** 24-5950-001

**Date Collected:** 07/09/24  
**Time Collected:** 9:30  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/22/24		Preparation Date: 07/18/24		
Manganese	0.48	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	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/17/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
Method	Analyte	QC Result	Low	High	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 99.4	86	117	
5035A/8260B	d8-Toluene (Surr)	%R: 100.9	90	110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 102.1	77	120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 93	59	131	
8270C	2-Fluorobiphenyl (Surr)	%R: 77	45	112	
8270C	2-Fluorophenol (Surr)	%R: 71	41	84	
8270C	d14-Terphenyl (Surr)	%R: 90	56	120	
8270C	d5-Nitrobenzene (Surr)	%R: 64	35	105	
8270C	Phenol-d5 (surr)	%R: 75.5	50	100	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-6-01 (3-6)  
**Sample No:** 24-5950-002

**Date Collected:** 07/09/24  
**Time Collected:** 9:32  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/11/24				
Total Solids	71.07		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/16/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-6-01 (3-6)  
**Sample No:** 24-5950-002

**Date Collected:** 07/09/24  
**Time Collected:** 9:32  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/16/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/13/24				
Preparation Date: 07/10/24				
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	115	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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-6-01 (3-6)  
**Sample No:** 24-5950-002

**Date Collected:** 07/09/24  
**Time Collected:** 9:32  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/13/24		Preparation Date: 07/10/24		
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-6-01 (3-6)  
**Sample No:** 24-5950-002

**Date Collected:** 07/09/24  
**Time Collected:** 9:32  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/13/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/10/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/23/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 07/22/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.0	1.0	mg/kg	
Barium	119	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	0.7	0.5	mg/kg	
Calcium	5,720	50	mg/kg	
Chromium	20.4	0.5	mg/kg	
Cobalt	10.3	0.5	mg/kg	
Copper	24.6	0.5	mg/kg	
Iron	20,600	5.0	mg/kg	
Lead	24.8	0.5	mg/kg	
Magnesium	3,760	50	mg/kg	
Manganese	339	0.5	mg/kg	
Nickel	23.0	0.5	mg/kg	
Potassium	2,030	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	249	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	30.7	1.0	mg/kg	
Zinc	71.2	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/18/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/11/24 11:15				
pH @ 25°C, 1:2	7.69		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-6-01 (3-6)  
**Sample No:** 24-5950-002

**Date Collected:** 07/09/24  
**Time Collected:** 9:32  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**  
 Analysis Date: 07/12/24  
 TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C**  
 Analysis Date: 07/17/24  
**Preparation Method 3010A**  
 Preparation Date: 07/16/24

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	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	5.41	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: 07/17/24  
 Mercury < 0.0005 0.0005 mg/L

**SPLP Extraction Method: 1312**  
 Analysis Date: 07/12/24  
 SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C**  
 Analysis Date: 07/22/24  
**Preparation Method 3010A**  
 Preparation Date: 07/18/24

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	0.028	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.036	0.005	mg/L	
Iron	26.3	0.1	mg/L	
Lead	0.032	0.005	mg/L	





**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-6-01 (3-6)  
**Sample No:** 24-5950-002

**Date Collected:** 07/09/24  
**Time Collected:** 9:32  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/22/24		Preparation Date: 07/18/24		
Manganese	0.34	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	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/17/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	100.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	101	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	101	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	87.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	77	45	112
8270C	2-Fluorophenol (Surr)	%R:	69.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	87	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	62	35	105
8270C	Phenol-d5 (surr)	%R:	75.5	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-17-01 (0-3)  
**Sample No:** 24-5950-009

**Date Collected:** 07/09/24  
**Time Collected:** 9:38  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/12/24				
Total Solids	81.86		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/16/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-17-01 (0-3)  
**Sample No:** 24-5950-009

**Date Collected:** 07/09/24  
**Time Collected:** 9:38  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/16/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/13/24				
Preparation Date: 07/10/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-17-01 (0-3)  
**Sample No:** 24-5950-009

**Date Collected:** 07/09/24  
**Time Collected:** 9:38  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/13/24		Preparation Date: 07/10/24		
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-17-01 (0-3)  
**Sample No:** 24-5950-009

**Date Collected:** 07/09/24  
**Time Collected:** 9:38  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/13/24		Preparation Method <b>3540C</b>		
		Preparation Date: 07/10/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/23/24		Preparation Method <b>3050B</b>		
		Preparation Date: 07/22/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.8	1.0	mg/kg	
Barium	40.7	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	0.6	0.5	mg/kg	
Calcium	79,200	50	mg/kg	
Chromium	17.0	0.5	mg/kg	
Cobalt	7.0	0.5	mg/kg	
Copper	42.5	0.5	mg/kg	
Iron	14,500	5.0	mg/kg	
Lead	170	0.5	mg/kg	
Magnesium	42,000	50	mg/kg	
Manganese	295	0.5	mg/kg	
Nickel	19.6	0.5	mg/kg	
Potassium	1,420	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,710	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	17.9	1.0	mg/kg	
Zinc	69.7	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/18/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/11/24 11:15				
pH @ 25°C, 1:2	8.83		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-17-01 (0-3)  
**Sample No:** 24-5950-009

**Date Collected:** 07/09/24  
**Time Collected:** 9:38  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/12/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 07/23/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/18/24				
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	0.2	0.1	mg/L	
Lead	0.006	0.005	mg/L	
Manganese	3.90	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/17/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/12/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 07/22/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/18/24				
Arsenic	0.094	0.010	mg/L	
Barium	1.2	1.0	mg/L	
Beryllium	0.009	0.004	mg/L	
Cadmium	0.009	0.005	mg/L	
Chromium	0.359	0.005	mg/L	
Cobalt	0.2	0.1	mg/L	
Copper	0.404	0.005	mg/L	
Iron	352	0.1	mg/L	
Lead	0.495	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-17-01 (0-3)  
**Sample No:** 24-5950-009

**Date Collected:** 07/09/24  
**Time Collected:** 9:38  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/22/24				Preparation Date: 07/18/24
Manganese	3.21	0.10	mg/L	
Nickel	0.5	0.1	mg/L	
Selenium	0.011	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.8	0.1	mg/L	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/17/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	100.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.2	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	101.1	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	104.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	89	45	112
8270C	2-Fluorophenol (Surr)	%R:	78.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	99	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	87	35	105
8270C	Phenol-d5 (surr)	%R:	82	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** DUP-01  
**Sample No:** 24-5950-040

**Date Collected:** 07/09/24  
**Time Collected:** 9:00  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/16/24				
Total Solids	77.92		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/17/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** DUP-01  
**Sample No:** 24-5950-040

**Date Collected:** 07/09/24  
**Time Collected:** 9:00  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/17/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/19/24				
Preparation Date: 07/11/24				
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	106	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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** DUP-01  
**Sample No:** 24-5950-040

**Date Collected:** 07/09/24  
**Time Collected:** 9:00  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/19/24		Preparation Date: 07/11/24		
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** DUP-01  
**Sample No:** 24-5950-040

**Date Collected:** 07/09/24  
**Time Collected:** 9:00  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/19/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/11/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/24/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 07/23/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.5	1.0	mg/kg	
Barium	70.8	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	0.7	0.5	mg/kg	
Calcium	35,600	50	mg/kg	
Chromium	15.5	0.5	mg/kg	
Cobalt	7.9	0.5	mg/kg	
Copper	18.0	0.5	mg/kg	
Iron	15,900	5.0	mg/kg	
Lead	20.2	0.5	mg/kg	
Magnesium	23,100	50	mg/kg	
Manganese	218	0.5	mg/kg	
Nickel	20.7	0.5	mg/kg	
Potassium	1,550	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	2,650	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	22.6	1.0	mg/kg	
Zinc	50.5	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/22/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/11/24 11:15				
pH @ 25°C, 1:2	8.35		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** DUP-01  
**Sample No:** 24-5950-040

**Date Collected:** 07/09/24  
**Time Collected:** 9:00  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**

Analysis Date: 07/17/24

TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A**  
 Analysis Date: 07/23/24 Preparation Date: 07/22/24

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	2.25	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: 07/23/24

Mercury < 0.0005 0.0005 mg/L

**SPLP Extraction Method: 1312**

Analysis Date: 07/17/24

SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A**  
 Analysis Date: 07/24/24 Preparation Date: 07/22/24

Arsenic	0.034	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.006	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.145	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.132	0.005	mg/L	
Iron	142	0.1	mg/L	
Lead	0.154	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** DUP-01  
**Sample No:** 24-5950-040

**Date Collected:** 07/09/24  
**Time Collected:** 9:00  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 07/24/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 07/22/24		
Manganese	1.08	0.10	mg/L	
Nickel	0.2	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.4	0.1	mg/L	

<b>SPLP Mercury Method 1312</b> Analysis Date: 07/22/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	101.4	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	102.1	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	102.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	69	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	86	45	112
8270C	2-Fluorophenol (Surr)	%R:	76	41	84
8270C	d14-Terphenyl (Surr)	%R:	88	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	85	35	105
8270C	Phenol-d5 (surr)	%R:	96.5	50	100



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-20-01 (0-3)  
**Sample No:** 24-5950-013

**Date Collected:** 07/09/24  
**Time Collected:** 9:55  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/12/24				
Total Solids	76.30		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/16/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-20-01 (0-3)  
**Sample No:** 24-5950-013

**Date Collected:** 07/09/24  
**Time Collected:** 9:55  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/16/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/14/24				
Preparation Date: 07/11/24				
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-20-01 (0-3)  
**Sample No:** 24-5950-013

**Date Collected:** 07/09/24  
**Time Collected:** 9:55  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/14/24		Preparation Date: 07/11/24		
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	
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	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-20-01 (0-3)  
**Sample No:** 24-5950-013

**Date Collected:** 07/09/24  
**Time Collected:** 9:55  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/14/24		Preparation Method <b>3540C</b>		
		Preparation Date: 07/11/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/23/24		Preparation Method <b>3050B</b>		
		Preparation Date: 07/22/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.8	1.0	mg/kg	
Barium	122	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	0.7	0.5	mg/kg	
Calcium	6,060	50	mg/kg	
Chromium	21.3	0.5	mg/kg	
Cobalt	14.7	0.5	mg/kg	
Copper	25.3	0.5	mg/kg	
Iron	24,800	5.0	mg/kg	
Lead	19.6	0.5	mg/kg	
Magnesium	4,860	50	mg/kg	
Manganese	556	0.5	mg/kg	
Nickel	30.4	0.5	mg/kg	
Potassium	1,750	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,620	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	29.9	1.0	mg/kg	
Zinc	66.9	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/19/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/11/24 11:15				
pH @ 25°C, 1:2	7.51		Units	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-20-01 (0-3)  
**Sample No:** 24-5950-013

**Date Collected:** 07/09/24  
**Time Collected:** 9:55  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/12/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 07/23/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/18/24				
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	0.5	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	7.19	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/17/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/12/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 07/22/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/18/24				
Arsenic	0.014	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	0.053	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.098	0.005	mg/L	
Iron	52.4	0.1	mg/L	
Lead	0.065	0.005	mg/L	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-20-01 (0-3)  
**Sample No:** 24-5950-013

**Date Collected:** 07/09/24  
**Time Collected:** 9:55  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/22/24		Preparation Date: 07/18/24		
Manganese	0.92	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	0.2	0.1	mg/L	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/17/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	100.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	101	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	101.7	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	60.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	85	45	112
8270C	2-Fluorophenol (Surr)	%R:	76.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	85	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	75	35	105
8270C	Phenol-d5 (surr)	%R:	96	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-20-01 (3-6)  
**Sample No:** 24-5950-014

**Date Collected:** 07/09/24  
**Time Collected:** 9:58  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/12/24				
Total Solids	77.73		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/16/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-20-01 (3-6)  
**Sample No:** 24-5950-014

**Date Collected:** 07/09/24  
**Time Collected:** 9:58  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/16/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/14/24				
Preparation Date: 07/11/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-20-01 (3-6)  
**Sample No:** 24-5950-014

**Date Collected:** 07/09/24  
**Time Collected:** 9:58  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/14/24		Preparation Date: 07/11/24		
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-20-01 (3-6)  
**Sample No:** 24-5950-014

**Date Collected:** 07/09/24  
**Time Collected:** 9:58  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/14/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/11/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/23/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 07/22/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.5	1.0	mg/kg	
Barium	101	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	0.6	0.5	mg/kg	
Calcium	8,450	50	mg/kg	
Chromium	23.3	0.5	mg/kg	
Cobalt	10.8	0.5	mg/kg	
Copper	23.4	0.5	mg/kg	
Iron	24,900	5.0	mg/kg	
Lead	12.2	0.5	mg/kg	
Magnesium	8,390	50	mg/kg	
Manganese	229	0.5	mg/kg	
Nickel	30.3	0.5	mg/kg	
Potassium	1,530	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	264	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	29.0	1.0	mg/kg	
Zinc	56.2	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/19/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/11/24 11:15				
pH @ 25°C, 1:2	7.81		Units	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-20-01 (3-6)  
**Sample No:** 24-5950-014

**Date Collected:** 07/09/24  
**Time Collected:** 9:58  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/12/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 07/23/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/18/24				
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	0.007	0.005	mg/L	
Manganese	3.68	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/17/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/12/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 07/22/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/18/24				
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	0.058	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.048	0.005	mg/L	
Iron	54.7	0.1	mg/L	
Lead	0.021	0.005	mg/L	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-20-01 (3-6)  
**Sample No:** 24-5950-014

**Date Collected:** 07/09/24  
**Time Collected:** 9:58  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/22/24				Preparation Date: 07/18/24
Manganese	0.41	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	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/18/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	100.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	101	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	102.3	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	60.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	77	45	112
8270C	2-Fluorophenol (Surr)	%R:	67.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	84	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	69	35	105
8270C	Phenol-d5 (surr)	%R:	86.5	50	100



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-22-01 (0-5)  
**Sample No:** 24-5950-021

**Date Collected:** 07/09/24  
**Time Collected:** 10:05  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/12/24				
Total Solids	77.79		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/16/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-22-01 (0-5)  
**Sample No:** 24-5950-021

**Date Collected:** 07/09/24  
**Time Collected:** 10:05  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/16/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/17/24				
Preparation Date: 07/11/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-22-01 (0-5)  
**Sample No:** 24-5950-021

**Date Collected:** 07/09/24  
**Time Collected:** 10:05  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/17/24		Preparation Date: 07/11/24		
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-22-01 (0-5)  
**Sample No:** 24-5950-021

**Date Collected:** 07/09/24  
**Time Collected:** 10:05  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/17/24		Preparation Method 3540C		
		Preparation Date: 07/11/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/24/24		Preparation Method 3050B		
		Preparation Date: 07/23/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.3	1.0	mg/kg	
Barium	144	0.5	mg/kg	
Beryllium	1.0	0.5	mg/kg	
Cadmium	0.8	0.5	mg/kg	
Calcium	3,750	50	mg/kg	
Chromium	23.0	0.5	mg/kg	
Cobalt	10.6	0.5	mg/kg	
Copper	21.4	0.5	mg/kg	
Iron	23,800	5.0	mg/kg	
Lead	12.3	0.5	mg/kg	
Magnesium	4,820	50	mg/kg	
Manganese	150	0.5	mg/kg	
Nickel	26.6	0.5	mg/kg	
Potassium	1,410	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	700	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	33.1	1.0	mg/kg	
Zinc	50.8	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/19/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/11/24 11:15				
pH @ 25°C, 1:2	8.16		Units	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-22-01 (0-5)  
**Sample No:** 24-5950-021

**Date Collected:** 07/09/24  
**Time Collected:** 10:05  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/12/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 07/23/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/18/24				
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	0.2	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.14	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/19/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/12/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 07/22/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/22/24				
Arsenic	0.014	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	0.119	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.115	0.005	mg/L	
Iron	106	0.1	mg/L	
Lead	0.049	0.005	mg/L	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-22-01 (0-5)  
**Sample No:** 24-5950-021

**Date Collected:** 07/09/24  
**Time Collected:** 10:05  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/22/24		Preparation Date: 07/22/24		
Manganese	0.50	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	0.2	0.1	mg/L	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/18/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	101	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	101.9	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	65.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	87	45	112
8270C	2-Fluorophenol (Surr)	%R:	79.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	93	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	86	35	105
8270C	Phenol-d5 (surr)	%R:	95	50	100



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-23-01 (0-5)  
**Sample No:** 24-5950-022

**Date Collected:** 07/09/24  
**Time Collected:** 10:25  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/12/24				
Total Solids	85.16		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/17/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-23-01 (0-5)  
**Sample No:** 24-5950-022

**Date Collected:** 07/09/24  
**Time Collected:** 10:25  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/17/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/17/24				
Preparation Date: 07/11/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-23-01 (0-5)  
**Sample No:** 24-5950-022

**Date Collected:** 07/09/24  
**Time Collected:** 10:25  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/17/24		Preparation Date: 07/11/24		
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-23-01 (0-5)  
**Sample No:** 24-5950-022

**Date Collected:** 07/09/24  
**Time Collected:** 10:25  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/17/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/11/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/24/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 07/23/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	1.8	1.0	mg/kg	
Barium	28.7	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	135,000	50	mg/kg	
Chromium	5.1	0.5	mg/kg	
Cobalt	2.2	0.5	mg/kg	
Copper	6.5	0.5	mg/kg	
Iron	5,390	5.0	mg/kg	
Lead	23.0	0.5	mg/kg	
Magnesium	82,200	50	mg/kg	
Manganese	208	0.5	mg/kg	
Nickel	6.3	0.5	mg/kg	
Potassium	772	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	744	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	7.8	1.0	mg/kg	
Zinc	34.4	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/19/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/11/24 11:15				
pH @ 25°C, 1:2	8.69		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-23-01 (0-5)  
**Sample No:** 24-5950-022

**Date Collected:** 07/09/24  
**Time Collected:** 10:25  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/12/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 07/23/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/18/24				
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	1.62	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/19/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/12/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 07/22/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/22/24				
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	0.043	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.039	0.005	mg/L	
Iron	37.1	0.1	mg/L	
Lead	0.108	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-23-01 (0-5)  
**Sample No:** 24-5950-022

**Date Collected:** 07/09/24  
**Time Collected:** 10:25  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/22/24		Preparation Date: 07/22/24		
Manganese	0.24	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	0.7	0.1	mg/L	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/18/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.6	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104.9	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	67	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	91	45	112
8270C	2-Fluorophenol (Surr)	%R:	81.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	91	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	85	35	105
8270C	Phenol-d5 (surr)	%R:	100.5	*	50 - 100



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-24-01 (0-3)  
**Sample No:** 24-5950-024

**Date Collected:** 07/09/24  
**Time Collected:** 10:33  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/12/24				
Total Solids	70.96		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/17/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-24-01 (0-3)  
**Sample No:** 24-5950-024

**Date Collected:** 07/09/24  
**Time Collected:** 10:33  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/17/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/17/24				
Preparation Date: 07/11/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-24-01 (0-3)  
**Sample No:** 24-5950-024

**Date Collected:** 07/09/24  
**Time Collected:** 10:33  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/17/24		Preparation Date: 07/11/24		
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	
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	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-24-01 (0-3)  
**Sample No:** 24-5950-024

**Date Collected:** 07/09/24  
**Time Collected:** 10:33  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/17/24		Preparation Method <b>3540C</b>		
		Preparation Date: 07/11/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/24/24		Preparation Method <b>3050B</b>		
		Preparation Date: 07/23/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.8	1.0	mg/kg	
Barium	118	0.5	mg/kg	
Beryllium	0.9	0.5	mg/kg	
Cadmium	0.9	0.5	mg/kg	
Calcium	5,970	50	mg/kg	
Chromium	18.1	0.5	mg/kg	
Cobalt	8.0	0.5	mg/kg	
Copper	23.9	0.5	mg/kg	
Iron	18,500	5.0	mg/kg	
Lead	18.5	0.5	mg/kg	
Magnesium	3,620	50	mg/kg	
Manganese	217	0.5	mg/kg	
Nickel	21.4	0.5	mg/kg	
Potassium	1,670	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	3,540	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	28.8	1.0	mg/kg	
Zinc	58.2	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/19/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/11/24 11:15				
pH @ 25°C, 1:2	7.80		Units	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-24-01 (0-3)  
**Sample No:** 24-5950-024

**Date Collected:** 07/09/24  
**Time Collected:** 10:33  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/16/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 07/23/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/18/24				
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	1.3	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.61	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/19/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/16/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 07/22/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/22/24				
Arsenic	0.012	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	0.024	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.031	0.005	mg/L	
Iron	19.5	0.1	mg/L	
Lead	0.008	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-24-01 (0-3)  
**Sample No:** 24-5950-024

**Date Collected:** 07/09/24  
**Time Collected:** 10:33  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/22/24		Preparation Date: 07/22/24		
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	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/18/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	100.4	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.6	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103.2	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	65	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	84	45	112
8270C	2-Fluorophenol (Surr)	%R:	71.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	91	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	71	35	105
8270C	Phenol-d5 (surr)	%R:	91.5	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** DUP-02  
**Sample No:** 24-5950-041

**Date Collected:** 07/09/24  
**Time Collected:** 10:00  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/16/24				
Total Solids	72.87		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/17/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** DUP-02  
**Sample No:** 24-5950-041

**Date Collected:** 07/09/24  
**Time Collected:** 10:00  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/17/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/19/24				
Preparation Date: 07/11/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** DUP-02  
**Sample No:** 24-5950-041

**Date Collected:** 07/09/24  
**Time Collected:** 10:00  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/19/24		Preparation Date: 07/11/24		
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** DUP-02  
**Sample No:** 24-5950-041

**Date Collected:** 07/09/24  
**Time Collected:** 10:00  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/19/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/11/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/23/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 07/23/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.0	1.0	mg/kg	
Barium	138	0.5	mg/kg	
Beryllium	1.0	0.5	mg/kg	
Cadmium	0.6	0.5	mg/kg	
Calcium	6,550	50	mg/kg	
Chromium	22.8	0.5	mg/kg	
Cobalt	8.1	0.5	mg/kg	
Copper	29.0	0.5	mg/kg	
Iron	22,800	5.0	mg/kg	
Lead	15.8	0.5	mg/kg	
Magnesium	4,470	50	mg/kg	
Manganese	224	0.5	mg/kg	
Nickel	25.4	0.5	mg/kg	
Potassium	1,620	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	3,900	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	35.4	1.0	mg/kg	
Zinc	55.8	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/22/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/11/24 11:15				
pH @ 25°C, 1:2	7.65		Units	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** DUP-02  
**Sample No:** 24-5950-041

**Date Collected:** 07/09/24  
**Time Collected:** 10:00  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/17/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 07/23/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/22/24				
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	0.3	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.96	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/23/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/17/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 07/24/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/22/24				
Arsenic	0.012	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	0.057	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.049	0.005	mg/L	
Iron	53.8	0.1	mg/L	
Lead	0.025	0.005	mg/L	





**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** DUP-02  
**Sample No:** 24-5950-041

**Date Collected:** 07/09/24  
**Time Collected:** 10:00  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 07/24/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 07/22/24		
Manganese	0.28	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	

<b>SPLP Mercury Method 1312</b> Analysis Date: 07/22/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.4	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.2	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103.5	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	73	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	82	45	112
8270C	2-Fluorophenol (Surr)	%R:	74	41	84
8270C	d14-Terphenyl (Surr)	%R:	89	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	81	35	105
8270C	Phenol-d5 (surr)	%R:	96	50	100



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-24-01 (3-6)  
**Sample No:** 24-5950-025

**Date Collected:** 07/09/24  
**Time Collected:** 10:40  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/12/24				
Total Solids	76.73		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/17/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-24-01 (3-6)  
**Sample No:** 24-5950-025

**Date Collected:** 07/09/24  
**Time Collected:** 10:40  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/17/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/17/24				
Preparation Date: 07/11/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-24-01 (3-6)  
**Sample No:** 24-5950-025

**Date Collected:** 07/09/24  
**Time Collected:** 10:40  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/17/24		Preparation Date: 07/11/24		
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-24-01 (3-6)  
**Sample No:** 24-5950-025

**Date Collected:** 07/09/24  
**Time Collected:** 10:40  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/17/24		Preparation Method <b>3540C</b>		
		Preparation Date: 07/11/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/24/24		Preparation Method <b>3050B</b>		
		Preparation Date: 07/23/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.0	1.0	mg/kg	
Barium	69.3	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	0.7	0.5	mg/kg	
Calcium	82,500	50	mg/kg	
Chromium	14.3	0.5	mg/kg	
Cobalt	4.8	0.5	mg/kg	
Copper	16.3	0.5	mg/kg	
Iron	12,600	5.0	mg/kg	
Lead	11.0	0.5	mg/kg	
Magnesium	52,100	50	mg/kg	
Manganese	183	0.5	mg/kg	
Nickel	14.4	0.5	mg/kg	
Potassium	1,080	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	1,400	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	20.2	1.0	mg/kg	
Zinc	33.4	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/19/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/11/24 11:15				
pH @ 25°C, 1:2	8.37		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-24-01 (3-6)  
**Sample No:** 24-5950-025

**Date Collected:** 07/09/24  
**Time Collected:** 10:40  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**

Analysis Date: 07/16/24

TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A**

Analysis Date: 07/23/24 Preparation Date: 07/18/24

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	4.31	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	

**TCLP Mercury Method 1311 Method: 7470A**

Analysis Date: 07/19/24

Mercury < 0.0005 0.0005 mg/L

**SPLP Extraction Method: 1312**

Analysis Date: 07/16/24

SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A**

Analysis Date: 07/22/24 Preparation Date: 07/22/24

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	0.017	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.018	0.005	mg/L	
Iron	14.5	0.1	mg/L	
Lead	0.006	0.005	mg/L	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-24-01 (3-6)  
**Sample No:** 24-5950-025

**Date Collected:** 07/09/24  
**Time Collected:** 10:40  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/22/24		Preparation Date: 07/22/24		
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	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/18/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	101.3	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.6	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	65	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	86	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	76	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	91	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	73	35 -	105
8270C	Phenol-d5 (surr)	%R:	97	50 -	100



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-25-01 (0-4)  
**Sample No:** 24-5950-026

**Date Collected:** 07/09/24  
**Time Collected:** 12:30  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/12/24				
Total Solids	81.03		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/17/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-25-01 (0-4)  
**Sample No:** 24-5950-026

**Date Collected:** 07/09/24  
**Time Collected:** 12:30  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/17/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>	
Analysis Date: 07/14/24				
Preparation Date: 07/11/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-25-01 (0-4)  
**Sample No:** 24-5950-026

**Date Collected:** 07/09/24  
**Time Collected:** 12:30  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/14/24		Preparation Date: 07/11/24		
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-25-01 (0-4)  
**Sample No:** 24-5950-026

**Date Collected:** 07/09/24  
**Time Collected:** 12:30  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/14/24				Preparation Date: 07/11/24
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		<b>Preparation Method 3050B</b>
Analysis Date: 07/24/24				Preparation Date: 07/23/24
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.8	1.0	mg/kg	
Barium	35.5	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	1.0	0.5	mg/kg	
Calcium	58,900	50	mg/kg	
Chromium	20.6	0.5	mg/kg	
Cobalt	9.3	0.5	mg/kg	
Copper	25.0	0.5	mg/kg	
Iron	22,700	5.0	mg/kg	
Lead	11.0	0.5	mg/kg	
Magnesium	26,700	50	mg/kg	
Manganese	347	0.5	mg/kg	
Nickel	30.9	0.5	mg/kg	
Potassium	2,570	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	1,680	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	25.8	1.0	mg/kg	
Zinc	49.4	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/19/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/11/24 11:15				
pH @ 25°C, 1:2	8.78		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-25-01 (0-4)  
**Sample No:** 24-5950-026

**Date Collected:** 07/09/24  
**Time Collected:** 12:30  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**

Analysis Date: 07/16/24

TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A**  
 Analysis Date: 07/23/24 Preparation Date: 07/18/24

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	0.2	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	5.07	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: 07/19/24

Mercury < 0.0005 0.0005 mg/L

**SPLP Extraction Method: 1312**

Analysis Date: 07/16/24

SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A**  
 Analysis Date: 07/22/24 Preparation Date: 07/22/24

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	0.041	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.044	0.005	mg/L	
Iron	39.0	0.1	mg/L	
Lead	0.015	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-25-01 (0-4)  
**Sample No:** 24-5950-026

**Date Collected:** 07/09/24  
**Time Collected:** 12:30  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 07/22/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 07/22/24		
Manganese	0.33	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	

<b>SPLP Mercury Method 1312</b> Analysis Date: 07/18/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	100.2	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.4	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	102.7	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	53.5	*	59 - 131
8270C	2-Fluorobiphenyl (Surr)	%R:	87		45 - 112
8270C	2-Fluorophenol (Surr)	%R:	73		41 - 84
8270C	d14-Terphenyl (Surr)	%R:	79		56 - 120
8270C	d5-Nitrobenzene (Surr)	%R:	77		35 - 105
8270C	Phenol-d5 (surr)	%R:	93.5		50 - 100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-25-01 (4-8)  
**Sample No:** 24-5950-027

**Date Collected:** 07/09/24  
**Time Collected:** 12:32  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/12/24				
Total Solids	82.02		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/17/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-25-01 (4-8)  
**Sample No:** 24-5950-027

**Date Collected:** 07/09/24  
**Time Collected:** 12:32  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/17/24				
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	

<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>	
Analysis Date: 07/18/24		Preparation Date: 07/11/24			
Acenaphthene	725	330	ug/kg		
Acenaphthylene	369	330	ug/kg		
Anthracene	761	330	ug/kg		
Benzidine	< 330	330	ug/kg		
Benzo(a)anthracene	756	330	ug/kg		
Benzo(a)pyrene	625	90	ug/kg		
Benzo(b)fluoranthene	740	330	ug/kg		
Benzo(k)fluoranthene	< 330	330	ug/kg		
Benzo(ghi)perylene	333	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	678	330	ug/kg		
Dibenzo(a,h)anthracene	< 90	90	ug/kg		
Dibenzofuran	610	330	ug/kg		
1,2-Dichlorobenzene	< 330	330	ug/kg		
1,3-Dichlorobenzene	< 330	330	ug/kg		
1,4-Dichlorobenzene	< 330	330	ug/kg		



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-25-01 (4-8)  
**Sample No:** 24-5950-027

**Date Collected:** 07/09/24  
**Time Collected:** 12:32  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/18/24		Preparation Date: 07/11/24		
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	2,420	330	ug/kg	
Fluorene	480	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	399	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	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	1,810	330	ug/kg	
Phenol	< 330	330	ug/kg	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-25-01 (4-8)  
**Sample No:** 24-5950-027

**Date Collected:** 07/09/24  
**Time Collected:** 12:32  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/18/24		Preparation Method <b>3540C</b>		
		Preparation Date: 07/11/24		
Pyrene	1,670	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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/24/24		Preparation Method <b>3050B</b>		
		Preparation Date: 07/23/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.8	1.0	mg/kg	
Barium	90.0	0.5	mg/kg	
Beryllium	0.9	0.5	mg/kg	
Cadmium	0.9	0.5	mg/kg	
Calcium	19,900	50	mg/kg	
Chromium	17.5	0.5	mg/kg	
Cobalt	8.4	0.5	mg/kg	
Copper	31.4	0.5	mg/kg	
Iron	18,400	5.0	mg/kg	
Lead	39.4	0.5	mg/kg	
Magnesium	14,300	50	mg/kg	
Manganese	142	0.5	mg/kg	
Nickel	24.5	0.5	mg/kg	
Potassium	1,190	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	1,680	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	27.8	1.0	mg/kg	
Zinc	65.3	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/19/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/11/24 11:15				
pH @ 25°C, 1:2	8.96		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-25-01 (4-8)  
**Sample No:** 24-5950-027

**Date Collected:** 07/09/24  
**Time Collected:** 12:32  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/16/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 07/23/24				
<b>Preparation Method 3010A</b> Preparation Date: 07/18/24				
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	0.2	0.1	mg/L	
Lead	0.014	0.005	mg/L	
Manganese	4.97	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/19/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/16/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 07/24/24				
<b>Preparation Method 3010A</b> Preparation Date: 07/22/24				
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	0.033	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.046	0.005	mg/L	
Iron	32.4	0.1	mg/L	
Lead	0.025	0.005	mg/L	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-25-01 (4-8)  
**Sample No:** 24-5950-027

**Date Collected:** 07/09/24  
**Time Collected:** 12:32  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/24/24		Preparation Date: 07/22/24		
Manganese	0.15	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	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/18/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	101.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	102.8	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	73	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	84	45	112
8270C	2-Fluorophenol (Surr)	%R:	81	41	84
8270C	d14-Terphenyl (Surr)	%R:	84	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	71	35	105
8270C	Phenol-d5 (surr)	%R:	97	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-26-01 (0-5)  
**Sample No:** 24-6106-001

**Date Collected:** 07/10/24  
**Time Collected:** 10:39  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/18/24				
Total Solids	87.57		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/18/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-26-01 (0-5)  
**Sample No:** 24-6106-001

**Date Collected:** 07/10/24  
**Time Collected:** 10:39  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/18/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/15/24				
Preparation Date: 07/15/24				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	864	330	ug/kg	
Benzo(a)pyrene	922	90	ug/kg	
Benzo(b)fluoranthene	1,230	330	ug/kg	
Benzo(k)fluoranthene	488	330	ug/kg	
Benzo(ghi)perylene	640	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	901	330	ug/kg	
Dibenzo(a,h)anthracene	155	90	ug/kg	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-26-01 (0-5)  
**Sample No:** 24-6106-001

**Date Collected:** 07/10/24  
**Time Collected:** 10:39  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/15/24		Preparation Date: 07/15/24		
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	1,690	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	717	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	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	605	330	ug/kg	
Phenol	< 330	330	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-26-01 (0-5)  
**Sample No:** 24-6106-001

**Date Collected:** 07/10/24  
**Time Collected:** 10:39  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/15/24		Preparation Method <b>3540C</b>		
		Preparation Date: 07/15/24		
Pyrene	1,360	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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/25/24		Preparation Method <b>3050B</b>		
		Preparation Date: 07/24/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.1	1.0	mg/kg	
Barium	55.8	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	0.5	0.5	mg/kg	
Calcium	76,200	50	mg/kg	
Chromium	11.9	0.5	mg/kg	
Cobalt	6.0	0.5	mg/kg	
Copper	15.3	0.5	mg/kg	
Iron	13,100	5.0	mg/kg	
Lead	22.3	0.5	mg/kg	
Magnesium	47,900	50	mg/kg	
Manganese	274	0.5	mg/kg	
Nickel	16.0	0.5	mg/kg	
Potassium	1,220	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	176	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	17.8	1.0	mg/kg	
Zinc	41.8	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/23/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/16/24 10:30				
pH @ 25°C, 1:2	7.83		Units	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-26-01 (0-5)  
**Sample No:** 24-6106-001

**Date Collected:** 07/10/24  
**Time Collected:** 10:39  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/18/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 07/25/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/23/24				
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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/23/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/18/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 07/26/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/23/24				
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	0.022	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.022	0.005	mg/L	
Iron	22.5	0.1	mg/L	
Lead	0.027	0.005	mg/L	





**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-26-01 (0-5)  
**Sample No:** 24-6106-001

**Date Collected:** 07/10/24  
**Time Collected:** 10:39  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/26/24		Preparation Date: 07/23/24		
Manganese	0.12	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	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/23/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.5	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	102.2	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	105.9	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	61	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	92	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	72	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	89	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	89	35 -	105
8270C	Phenol-d5 (surr)	%R:	97	50 -	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-26-01 (5-9)  
**Sample No:** 24-6106-002

**Date Collected:** 07/10/24  
**Time Collected:** 10:42  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/18/24				
Total Solids	78.36		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/18/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-26-01 (5-9)  
**Sample No:** 24-6106-002

**Date Collected:** 07/10/24  
**Time Collected:** 10:42  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/18/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/20/24				
Preparation Date: 07/16/24				
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	214	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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-26-01 (5-9)  
**Sample No:** 24-6106-002

**Date Collected:** 07/10/24  
**Time Collected:** 10:42  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/20/24		Preparation Date: 07/16/24		
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-26-01 (5-9)  
**Sample No:** 24-6106-002

**Date Collected:** 07/10/24  
**Time Collected:** 10:42  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/20/24		Preparation Method <b>3540C</b>		
		Preparation Date: 07/16/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/25/24		Preparation Method <b>3050B</b>		
		Preparation Date: 07/24/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.3	1.0	mg/kg	
Barium	60.4	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	0.6	0.5	mg/kg	
Calcium	51,100	50	mg/kg	
Chromium	19.5	0.5	mg/kg	
Cobalt	12.0	0.5	mg/kg	
Copper	25.0	0.5	mg/kg	
Iron	24,400	5.0	mg/kg	
Lead	14.8	0.5	mg/kg	
Magnesium	23,500	50	mg/kg	
Manganese	413	0.5	mg/kg	
Nickel	30.1	0.5	mg/kg	
Potassium	2,020	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	273	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	26.0	1.0	mg/kg	
Zinc	57.6	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/23/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/16/24 10:30				
pH @ 25°C, 1:2	7.78		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-26-01 (5-9)  
**Sample No:** 24-6106-002

**Date Collected:** 07/10/24  
**Time Collected:** 10:42  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**

Analysis Date: 07/18/24

TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A**  
 Analysis Date: 07/25/24 Preparation Date: 07/23/24

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	3.57	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: 07/23/24

Mercury < 0.0005 0.0005 mg/L

**SPLP Extraction Method: 1312**

Analysis Date: 07/18/24

SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A**  
 Analysis Date: 07/26/24 Preparation Date: 07/23/24

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	< 0.005	0.005	mg/L	
Iron	0.9	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-26-01 (5-9)  
**Sample No:** 24-6106-002

**Date Collected:** 07/10/24  
**Time Collected:** 10:42  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/26/24		Preparation Date: 07/23/24		
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	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/23/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>Low</i>	<i>High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 98.9	86	117	
5035A/8260B	d8-Toluene (Surr)	%R: 102.2	90	110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 106.8	77	120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 61	59	131	
8270C	2-Fluorobiphenyl (Surr)	%R: 53	45	112	
8270C	2-Fluorophenol (Surr)	%R: 69	41	84	
8270C	d14-Terphenyl (Surr)	%R: 77	56	120	
8270C	d5-Nitrobenzene (Surr)	%R: 42	35	105	
8270C	Phenol-d5 (surr)	%R: 82	50	100	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-26-03 (0-5)  
**Sample No:** 24-5950-030

**Date Collected:** 07/09/24  
**Time Collected:** 12:05  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/12/24				
Total Solids	82.30		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/17/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-26-03 (0-5)  
**Sample No:** 24-5950-030

**Date Collected:** 07/09/24  
**Time Collected:** 12:05  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/17/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/18/24				
Preparation Date: 07/11/24				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	437	330	ug/kg	
Anthracene	555	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	804	330	ug/kg	
Benzo(a)pyrene	726	90	ug/kg	
Benzo(b)fluoranthene	839	330	ug/kg	
Benzo(k)fluoranthene	355	330	ug/kg	
Benzo(ghi)perylene	408	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	712	330	ug/kg	
Dibenzo(a,h)anthracene	101	90	ug/kg	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-26-03 (0-5)  
**Sample No:** 24-5950-030

**Date Collected:** 07/09/24  
**Time Collected:** 12:05  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/18/24		Preparation Date: 07/11/24		
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	2,080	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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-26-03 (0-5)  
**Sample No:** 24-5950-030

**Date Collected:** 07/09/24  
**Time Collected:** 12:05  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/18/24		Preparation Method <b>3540C</b>		
		Preparation Date: 07/11/24		
Pyrene	1,580	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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/24/24		Preparation Method <b>3050B</b>		
		Preparation Date: 07/23/24		
Antimony	1.2	1.0	mg/kg	
Arsenic	4.8	1.0	mg/kg	
Barium	66.0	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	0.8	0.5	mg/kg	
Calcium	90,600	50	mg/kg	
Chromium	15.2	0.5	mg/kg	
Cobalt	8.4	0.5	mg/kg	
Copper	22.0	0.5	mg/kg	
Iron	15,400	5.0	mg/kg	
Lead	66.7	0.5	mg/kg	
Magnesium	52,800	50	mg/kg	
Manganese	392	0.5	mg/kg	
Nickel	20.4	0.5	mg/kg	
Potassium	1,360	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,700	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	18.8	1.0	mg/kg	
Zinc	59.0	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/19/24				
Mercury	0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/11/24 11:15				
pH @ 25°C, 1:2	8.73		Units	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-26-03 (0-5)  
**Sample No:** 24-5950-030

**Date Collected:** 07/09/24  
**Time Collected:** 12:05  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/16/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 07/23/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/22/24				
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	0.019	0.005	mg/L	
Manganese	7.59	0.10	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	0.011	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/19/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/16/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 07/24/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/22/24				
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	0.031	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.030	0.005	mg/L	
Iron	30.5	0.1	mg/L	
Lead	0.027	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-26-03 (0-5)  
**Sample No:** 24-5950-030

**Date Collected:** 07/09/24  
**Time Collected:** 12:05  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/24/24				Preparation Date: 07/22/24
Manganese	0.20	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	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/18/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	100.4	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.2	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103.2	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	67	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	81	45	112
8270C	2-Fluorophenol (Surr)	%R:	71.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	85	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	79	35	105
8270C	Phenol-d5 (surr)	%R:	89.5	50	100



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-26-03 (5-9)  
**Sample No:** 24-5950-031

**Date Collected:** 07/09/24  
**Time Collected:** 12:07  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/12/24				
Total Solids	79.48		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/17/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-26-03 (5-9)  
**Sample No:** 24-5950-031

**Date Collected:** 07/09/24  
**Time Collected:** 12:07  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/17/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>	
Analysis Date: 07/18/24				
Preparation Date: 07/11/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-26-03 (5-9)  
**Sample No:** 24-5950-031

**Date Collected:** 07/09/24  
**Time Collected:** 12:07  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/18/24		Preparation Date: 07/11/24		
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	
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	





**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-26-03 (5-9)  
**Sample No:** 24-5950-031

**Date Collected:** 07/09/24  
**Time Collected:** 12:07  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/18/24				Preparation Date: 07/11/24
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		<b>Preparation Method 3050B</b>
Analysis Date: 07/24/24				Preparation Date: 07/23/24
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.0	1.0	mg/kg	
Barium	54.2	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	0.9	0.5	mg/kg	
Calcium	48,100	50	mg/kg	
Chromium	19.5	0.5	mg/kg	
Cobalt	10.7	0.5	mg/kg	
Copper	25.1	0.5	mg/kg	
Iron	21,700	5.0	mg/kg	
Lead	15.0	0.5	mg/kg	
Magnesium	23,900	50	mg/kg	
Manganese	353	0.5	mg/kg	
Nickel	29.1	0.5	mg/kg	
Potassium	2,130	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	867	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	24.2	1.0	mg/kg	
Zinc	49.2	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/19/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/11/24 11:15				
pH @ 25°C, 1:2	8.26		Units	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-26-03 (5-9)  
**Sample No:** 24-5950-031

**Date Collected:** 07/09/24  
**Time Collected:** 12:07  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/16/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 07/23/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/22/24				
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	0.79	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/19/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/16/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 07/24/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/22/24				
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	0.012	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.011	0.005	mg/L	
Iron	10.7	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-26-03 (5-9)  
**Sample No:** 24-5950-031

**Date Collected:** 07/09/24  
**Time Collected:** 12:07  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/24/24		Preparation Date: 07/22/24		
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	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/18/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.6	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.6	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	68	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	82	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	72	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	89	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	85	35 -	105
8270C	Phenol-d5 (surr)	%R:	92.5	50 -	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-28-01 (0-4)  
**Sample No:** 24-5950-035

**Date Collected:** 07/09/24  
**Time Collected:** 11:10  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/12/24				
Total Solids	76.69		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/17/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-28-01 (0-4)  
**Sample No:** 24-5950-035

**Date Collected:** 07/09/24  
**Time Collected:** 11:10  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/17/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>	
Analysis Date: 07/18/24				
Preparation Date: 07/11/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-28-01 (0-4)  
**Sample No:** 24-5950-035

**Date Collected:** 07/09/24  
**Time Collected:** 11:10  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/18/24		Preparation Date: 07/11/24		
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-28-01 (0-4)  
**Sample No:** 24-5950-035

**Date Collected:** 07/09/24  
**Time Collected:** 11:10  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/18/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/11/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/24/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 07/23/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.1	1.0	mg/kg	
Barium	133	0.5	mg/kg	
Beryllium	1.0	0.5	mg/kg	
Cadmium	0.9	0.5	mg/kg	
Calcium	7,230	50	mg/kg	
Chromium	20.6	0.5	mg/kg	
Cobalt	9.4	0.5	mg/kg	
Copper	25.4	0.5	mg/kg	
Iron	19,200	5.0	mg/kg	
Lead	13.7	0.5	mg/kg	
Magnesium	6,530	50	mg/kg	
Manganese	210	0.5	mg/kg	
Nickel	28.4	0.5	mg/kg	
Potassium	1,420	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	1,980	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	29.7	1.0	mg/kg	
Zinc	48.6	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/19/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/11/24 11:15				
pH @ 25°C, 1:2	7.88		Units	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-28-01 (0-4)  
**Sample No:** 24-5950-035

**Date Collected:** 07/09/24  
**Time Collected:** 11:10  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/16/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 07/23/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/22/24				
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	1.77	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/19/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/16/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 07/24/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/22/24				
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	0.070	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.069	0.005	mg/L	
Iron	65.9	0.1	mg/L	
Lead	0.033	0.005	mg/L	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-28-01 (0-4)  
**Sample No:** 24-5950-035

**Date Collected:** 07/09/24  
**Time Collected:** 11:10  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 07/24/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 07/22/24		
Manganese	0.45	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	0.2	0.1	mg/L	

<b>SPLP Mercury Method 1312</b> Analysis Date: 07/22/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103.1	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	67	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	75	45	112
8270C	2-Fluorophenol (Surr)	%R:	64.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	88	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	69	35	105
8270C	Phenol-d5 (surr)	%R:	84	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-29-03 (0-4)  
**Sample No:** 24-5950-038

**Date Collected:** 07/09/24  
**Time Collected:** 11:14  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/16/24				
Total Solids	80.03		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/17/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-29-03 (0-4)  
**Sample No:** 24-5950-038

**Date Collected:** 07/09/24  
**Time Collected:** 11:14  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/17/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/19/24				
Preparation Date: 07/11/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-29-03 (0-4)  
**Sample No:** 24-5950-038

**Date Collected:** 07/09/24  
**Time Collected:** 11:14  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/19/24		Preparation Date: 07/11/24		
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-29-03 (0-4)  
**Sample No:** 24-5950-038

**Date Collected:** 07/09/24  
**Time Collected:** 11:14  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/19/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/11/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/24/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 07/23/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.3	1.0	mg/kg	
Barium	114	0.5	mg/kg	
Beryllium	0.9	0.5	mg/kg	
Cadmium	0.9	0.5	mg/kg	
Calcium	4,680	50	mg/kg	
Chromium	20.4	0.5	mg/kg	
Cobalt	11.8	0.5	mg/kg	
Copper	22.3	0.5	mg/kg	
Iron	22,600	5.0	mg/kg	
Lead	15.3	0.5	mg/kg	
Magnesium	4,770	50	mg/kg	
Manganese	489	0.5	mg/kg	
Nickel	27.9	0.5	mg/kg	
Potassium	1,530	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	2,590	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	30.0	1.0	mg/kg	
Zinc	49.3	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/22/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/11/24 11:15				
pH @ 25°C, 1:2	7.57		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-29-03 (0-4)  
**Sample No:** 24-5950-038

**Date Collected:** 07/09/24  
**Time Collected:** 11:14  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/17/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 07/23/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/22/24				
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	0.3	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.21	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/19/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/17/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 07/24/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/22/24				
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	0.076	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.061	0.005	mg/L	
Iron	70.3	0.1	mg/L	
Lead	0.027	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-29-03 (0-4)  
**Sample No:** 24-5950-038

**Date Collected:** 07/09/24  
**Time Collected:** 11:14  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/24/24				Preparation Date: 07/22/24
Manganese	0.50	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	0.2	0.1	mg/L	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/22/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	100.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	102	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103.6	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	67.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	73	45	112
8270C	2-Fluorophenol (Surr)	%R:	69	41	84
8270C	d14-Terphenyl (Surr)	%R:	82	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	81	35	105
8270C	Phenol-d5 (surr)	%R:	88	50	100



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-29-03 (4-8)  
**Sample No:** 24-5950-039

**Date Collected:** 07/09/24  
**Time Collected:** 11:17  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/16/24				
Total Solids	79.89		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/17/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-29-03 (4-8)  
**Sample No:** 24-5950-039

**Date Collected:** 07/09/24  
**Time Collected:** 11:17  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/17/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>	
Analysis Date: 07/19/24				
Preparation Date: 07/11/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-29-03 (4-8)  
**Sample No:** 24-5950-039

**Date Collected:** 07/09/24  
**Time Collected:** 11:17  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/19/24		Preparation Date: 07/11/24		
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-29-03 (4-8)  
**Sample No:** 24-5950-039

**Date Collected:** 07/09/24  
**Time Collected:** 11:17  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/19/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/11/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/24/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 07/23/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.0	1.0	mg/kg	
Barium	48.8	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	0.9	0.5	mg/kg	
Calcium	25,200	50	mg/kg	
Chromium	18.7	0.5	mg/kg	
Cobalt	12.1	0.5	mg/kg	
Copper	24.5	0.5	mg/kg	
Iron	22,000	5.0	mg/kg	
Lead	11.4	0.5	mg/kg	
Magnesium	18,400	50	mg/kg	
Manganese	398	0.5	mg/kg	
Nickel	31.1	0.5	mg/kg	
Potassium	1,770	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	933	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	22.9	1.0	mg/kg	
Zinc	46.2	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/22/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/11/24 11:15				
pH @ 25°C, 1:2	8.27		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-29-03 (4-8)  
**Sample No:** 24-5950-039

**Date Collected:** 07/09/24  
**Time Collected:** 11:17  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/17/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 07/23/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/22/24				
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	5.39	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/23/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/17/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 07/24/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/22/24				
Arsenic	0.034	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	0.086	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.112	0.005	mg/L	
Iron	98.2	0.1	mg/L	
Lead	0.041	0.005	mg/L	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-29-03 (4-8)  
**Sample No:** 24-5950-039

**Date Collected:** 07/09/24  
**Time Collected:** 11:17  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/24/24		Preparation Date: 07/22/24		
Manganese	0.89	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	0.2	0.1	mg/L	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/22/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	102	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	102.9	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	68	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	84	45	112
8270C	2-Fluorophenol (Surr)	%R:	83	41	84
8270C	d14-Terphenyl (Surr)	%R:	84	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	86	35	105
8270C	Phenol-d5 (surr)	%R:	97.5	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-01 (0-3)  
**Sample No:** 24-6393-023

**Date Collected:** 07/18/24  
**Time Collected:** 11:18  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/23/24				
Total Solids	78.61		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/31/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-01 (0-3)  
**Sample No:** 24-6393-023

**Date Collected:** 07/18/24  
**Time Collected:** 11:18  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/31/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 08/05/24				
Preparation Date: 07/30/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-01 (0-3)  
**Sample No:** 24-6393-023

**Date Collected:** 07/18/24  
**Time Collected:** 11:18  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/05/24		Preparation Date: 07/30/24		
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	
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	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-01 (0-3)  
**Sample No:** 24-6393-023

**Date Collected:** 07/18/24  
**Time Collected:** 11:18  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 08/05/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/30/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/09/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 08/06/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.0	1.0	mg/kg	
Barium	87.3	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	2,300	50	mg/kg	
Chromium	21.0	0.5	mg/kg	
Cobalt	11.0	0.5	mg/kg	
Copper	25.2	0.5	mg/kg	
Iron	24,900	5.0	mg/kg	
Lead	16.7	0.5	mg/kg	
Magnesium	4,350	50	mg/kg	
Manganese	440	0.5	mg/kg	
Nickel	31.8	0.5	mg/kg	
Potassium	1,320	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	2,940	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	29.9	1.0	mg/kg	
Zinc	48.2	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 08/07/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/24/24 12:55				
pH @ 25°C, 1:2	8.30		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-01 (0-3)  
**Sample No:** 24-6393-023

**Date Collected:** 07/18/24  
**Time Collected:** 11:18  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 08/02/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/09/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/07/24				
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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 08/08/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 08/02/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/08/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/08/24				
Arsenic	0.060	0.010	mg/L	
Barium	2.2	1.0	mg/L	
Beryllium	0.014	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.399	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.417	0.005	mg/L	
Iron	426	0.1	mg/L	
Lead	0.092	0.005	mg/L	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-01 (0-3)  
**Sample No:** 24-6393-023

**Date Collected:** 07/18/24  
**Time Collected:** 11:18  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/08/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/08/24		
Manganese	1.34	0.10	mg/L	
Nickel	0.4	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.8	0.1	mg/L	

<b>SPLP Mercury Method 1312</b> Analysis Date: 08/08/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.3	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	96.9	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	79	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	85	45	112
8270C	2-Fluorophenol (Surr)	%R:	75.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	103	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	95	35	105
8270C	Phenol-d5 (surr)	%R:	89.5	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-01 (3-6)  
**Sample No:** 24-6393-024

**Date Collected:** 07/18/24  
**Time Collected:** 11:20  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/23/24				
Total Solids	83.65		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/31/24				
Acetone	< 200	200	ug/kg	
Benzene	12.8	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	12.3	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	5.8	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	19.1	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-01 (3-6)  
**Sample No:** 24-6393-024

**Date Collected:** 07/18/24  
**Time Collected:** 11:20  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/31/24				
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	10.5	5.0	ug/kg	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/05/24				
Preparation Date: 07/30/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-01 (3-6)  
**Sample No:** 24-6393-024

**Date Collected:** 07/18/24  
**Time Collected:** 11:20  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/05/24		Preparation Date: 07/30/24		
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	
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	



### Analytical Report

<b>Client:</b>	HUFF & HUFF INC.	<b>Date Collected:</b>	07/18/24
<b>Project ID:</b>	IDOT WO39A 81.0220714.72	<b>Time Collected:</b>	11:20
<b>Sample ID:</b>	1560V3-39-01 (3-6)	<b>Date Received:</b>	07/19/24
<b>Sample No:</b>	24-6393-024	<b>Date Reported:</b>	08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>				
<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>		
Analysis Date: 08/05/24		Preparation Date: 07/30/24		
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	
<b>Total Metals</b>				
<b>Method: 6010C</b>		<b>Preparation Method 3050B</b>		
Analysis Date: 08/09/24		Preparation Date: 08/06/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.5	1.0	mg/kg	
Barium	75.0	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	0.5	0.5	mg/kg	
Calcium	30,000	50	mg/kg	
Chromium	20.2	0.5	mg/kg	
Cobalt	13.3	0.5	mg/kg	
Copper	25.0	0.5	mg/kg	
Iron	21,900	5.0	mg/kg	
Lead	12.7	0.5	mg/kg	
Magnesium	19,100	50	mg/kg	
Manganese	550	0.5	mg/kg	
Nickel	34.4	0.5	mg/kg	
Potassium	1,780	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	2,070	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	25.7	1.0	mg/kg	
Zinc	42.0	1.0	mg/kg	
<b>Total Mercury</b>				
<b>Method: 7471B</b>				
Analysis Date: 08/07/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>				
<b>Method: 9045D</b>				
Analysis Date: 07/24/24 12:55				
pH @ 25°C, 1:2	8.82		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-01 (3-6)  
**Sample No:** 24-6393-024

**Date Collected:** 07/18/24  
**Time Collected:** 11:20  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 08/02/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/09/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/07/24				
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	0.25	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 08/08/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 08/02/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/08/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/08/24				
Arsenic	0.085	0.010	mg/L	
Barium	1.4	1.0	mg/L	
Beryllium	0.010	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.328	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.337	0.005	mg/L	
Iron	314	0.1	mg/L	
Lead	0.102	0.005	mg/L	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-01 (3-6)  
**Sample No:** 24-6393-024

**Date Collected:** 07/18/24  
**Time Collected:** 11:20  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/08/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/08/24		
Manganese	1.22	0.10	mg/L	
Nickel	0.3	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.6	0.1	mg/L	

<b>SPLP Mercury Method 1312</b> Analysis Date: 08/08/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.5	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.1	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	93.8	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	80	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	90	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	78	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	105	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	95	35 -	105
8270C	Phenol-d5 (surr)	%R:	93	50 -	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** DUP-24  
**Sample No:** 24-6393-039

**Date Collected:** 07/18/24  
**Time Collected:** 11:30  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/23/24				
Total Solids	81.54		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/31/24				
Acetone	< 200	200	ug/kg	
Benzene	25.1	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	9.0	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	34.2	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** DUP-24  
**Sample No:** 24-6393-039

**Date Collected:** 07/18/24  
**Time Collected:** 11:30  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/31/24				
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	16.8	5.0	ug/kg	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/02/24				
Preparation Date: 07/31/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** DUP-24  
**Sample No:** 24-6393-039

**Date Collected:** 07/18/24  
**Time Collected:** 11:30  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/02/24		Preparation Date: 07/31/24		
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** DUP-24  
**Sample No:** 24-6393-039

**Date Collected:** 07/18/24  
**Time Collected:** 11:30  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 08/02/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/31/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/07/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 08/06/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.8	1.0	mg/kg	
Barium	76.8	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	18,800	50	mg/kg	
Chromium	21.3	0.5	mg/kg	
Cobalt	9.2	0.5	mg/kg	
Copper	20.2	0.5	mg/kg	
Iron	23,400	5.0	mg/kg	
Lead	11.6	0.5	mg/kg	
Magnesium	14,900	50	mg/kg	
Manganese	310	0.5	mg/kg	
Nickel	27.9	0.5	mg/kg	
Potassium	1,730	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	2,220	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	28.6	1.0	mg/kg	
Zinc	47.6	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 08/07/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/25/24 11:30				
pH @ 25°C, 1:2	8.43		Units	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** DUP-24  
**Sample No:** 24-6393-039

**Date Collected:** 07/18/24  
**Time Collected:** 11:30  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 08/02/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/08/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/08/24				
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	0.37	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 08/09/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 08/02/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/09/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/08/24				
Arsenic	0.093	0.010	mg/L	
Barium	1.4	1.0	mg/L	
Beryllium	0.013	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.391	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.298	0.005	mg/L	
Iron	375	0.1	mg/L	
Lead	0.128	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** DUP-24  
**Sample No:** 24-6393-039

**Date Collected:** 07/18/24  
**Time Collected:** 11:30  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/09/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/08/24		
Manganese	1.34	0.10	mg/L	
Nickel	0.4	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.8	0.1	mg/L	

<b>SPLP Mercury Method 1312</b> Analysis Date: 08/08/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<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:	99.9	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	89.6	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	64.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	64	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	57	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	93	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	70	35 -	105
8270C	Phenol-d5 (surr)	%R:	72.5	50 -	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-03 (0-3)  
**Sample No:** 24-6393-027

**Date Collected:** 07/18/24  
**Time Collected:** 11:30  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/23/24				
Total Solids	79.96		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/31/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-03 (0-3)  
**Sample No:** 24-6393-027

**Date Collected:** 07/18/24  
**Time Collected:** 11:30  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/31/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 08/05/24				
Preparation Date: 07/30/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-03 (0-3)  
**Sample No:** 24-6393-027

**Date Collected:** 07/18/24  
**Time Collected:** 11:30  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/05/24		Preparation Date: 07/30/24		
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-03 (0-3)  
**Sample No:** 24-6393-027

**Date Collected:** 07/18/24  
**Time Collected:** 11:30  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 08/05/24		Preparation Method <b>3540C</b>		
		Preparation Date: 07/30/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/09/24		Preparation Method <b>3050B</b>		
		Preparation Date: 08/06/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.0	1.0	mg/kg	
Barium	124	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	7,800	50	mg/kg	
Chromium	22.2	0.5	mg/kg	
Cobalt	8.3	0.5	mg/kg	
Copper	22.1	0.5	mg/kg	
Iron	23,600	5.0	mg/kg	
Lead	37.1	0.5	mg/kg	
Magnesium	6,190	50	mg/kg	
Manganese	322	0.5	mg/kg	
Nickel	23.2	0.5	mg/kg	
Potassium	1,640	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	1,170	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	32.2	1.0	mg/kg	
Zinc	56.3	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 08/07/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/24/24 12:55				
pH @ 25°C, 1:2	8.60		Units	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-03 (0-3)  
**Sample No:** 24-6393-027

**Date Collected:** 07/18/24  
**Time Collected:** 11:30  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 08/02/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/09/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/07/24				
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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 08/09/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 08/02/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/09/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/08/24				
Arsenic	0.037	0.010	mg/L	
Barium	1.6	1.0	mg/L	
Beryllium	0.009	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.264	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.228	0.005	mg/L	
Iron	237	0.1	mg/L	
Lead	0.120	0.005	mg/L	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-03 (0-3)  
**Sample No:** 24-6393-027

**Date Collected:** 07/18/24  
**Time Collected:** 11:30  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/09/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/08/24		
Manganese	0.80	0.10	mg/L	
Nickel	0.2	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.6	0.1	mg/L	

<b>SPLP Mercury Method 1312</b> Analysis Date: 08/08/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.4	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.2	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	95.9	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	67	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	68	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	59	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	87	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	70	35 -	105
8270C	Phenol-d5 (surr)	%R:	73	50 -	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-03 (3-6)  
**Sample No:** 24-6393-028

**Date Collected:** 07/18/24  
**Time Collected:** 11:32  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/23/24				
Total Solids	84.02		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/31/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-03 (3-6)  
**Sample No:** 24-6393-028

**Date Collected:** 07/18/24  
**Time Collected:** 11:32  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/31/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 08/05/24				
Preparation Date: 07/30/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-03 (3-6)  
**Sample No:** 24-6393-028

**Date Collected:** 07/18/24  
**Time Collected:** 11:32  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/05/24		Preparation Date: 07/30/24		
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	
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	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-03 (3-6)  
**Sample No:** 24-6393-028

**Date Collected:** 07/18/24  
**Time Collected:** 11:32  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 08/05/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/30/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/09/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 08/06/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.9	1.0	mg/kg	
Barium	42.1	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	48,500	50	mg/kg	
Chromium	17.8	0.5	mg/kg	
Cobalt	6.1	0.5	mg/kg	
Copper	26.4	0.5	mg/kg	
Iron	19,300	5.0	mg/kg	
Lead	9.6	0.5	mg/kg	
Magnesium	22,100	50	mg/kg	
Manganese	223	0.5	mg/kg	
Nickel	25.4	0.5	mg/kg	
Potassium	2,230	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	661	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	22.2	1.0	mg/kg	
Zinc	43.5	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 08/07/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/24/24 12:55				
pH @ 25°C, 1:2	8.64		Units	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-03 (3-6)  
**Sample No:** 24-6393-028

**Date Collected:** 07/18/24  
**Time Collected:** 11:32  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 08/02/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/09/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/07/24				
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	2.60	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 08/09/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 08/02/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/09/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/08/24				
Arsenic	0.040	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.005	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.121	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.145	0.005	mg/L	
Iron	118	0.1	mg/L	
Lead	0.056	0.005	mg/L	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-03 (3-6)  
**Sample No:** 24-6393-028

**Date Collected:** 07/18/24  
**Time Collected:** 11:32  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 08/09/24		Preparation Date: 08/08/24		
Manganese	0.77	0.10	mg/L	
Nickel	0.2	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.3	0.1	mg/L	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 08/08/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>Low</i>	<i>High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 96	86	117	
5035A/8260B	d8-Toluene (Surr)	%R: 100.8	90	110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 92.6	77	120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 74	59	131	
8270C	2-Fluorobiphenyl (Surr)	%R: 82	45	112	
8270C	2-Fluorophenol (Surr)	%R: 72	41	84	
8270C	d14-Terphenyl (Surr)	%R: 97	56	120	
8270C	d5-Nitrobenzene (Surr)	%R: 88	35	105	
8270C	Phenol-d5 (surr)	%R: 86.5	50	100	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-04 (0-3)  
**Sample No:** 24-6393-029

**Date Collected:** 07/18/24  
**Time Collected:** 11:44  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/23/24				
Total Solids	83.63		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/31/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-04 (0-3)  
**Sample No:** 24-6393-029

**Date Collected:** 07/18/24  
**Time Collected:** 11:44  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/31/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 08/05/24				
Preparation Date: 07/30/24				
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-04 (0-3)  
**Sample No:** 24-6393-029

**Date Collected:** 07/18/24  
**Time Collected:** 11:44  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/05/24		Preparation Date: 07/30/24		
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-04 (0-3)  
**Sample No:** 24-6393-029

**Date Collected:** 07/18/24  
**Time Collected:** 11:44  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 08/05/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/30/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/09/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 08/06/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.4	1.0	mg/kg	
Barium	82.6	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	57,100	50	mg/kg	
Chromium	18.2	0.5	mg/kg	
Cobalt	13.5	0.5	mg/kg	
Copper	20.8	0.5	mg/kg	
Iron	19,500	5.0	mg/kg	
Lead	14.0	0.5	mg/kg	
Magnesium	20,600	50	mg/kg	
Manganese	563	0.5	mg/kg	
Nickel	30.2	0.5	mg/kg	
Potassium	1,630	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	994	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	23.7	1.0	mg/kg	
Zinc	38.5	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 08/07/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/24/24 12:55				
pH @ 25°C, 1:2	8.91		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-04 (0-3)  
**Sample No:** 24-6393-029

**Date Collected:** 07/18/24  
**Time Collected:** 11:44  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**  
 Analysis Date: 08/02/24  
 TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C**  
 Analysis Date: 08/09/24  
**Preparation Method 3010A**  
 Preparation Date: 08/07/24

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	1.93	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: 08/09/24  
 Mercury < 0.0005 0.0005 mg/L

**SPLP Extraction Method: 1312**  
 Analysis Date: 08/02/24  
 SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C**  
 Analysis Date: 08/09/24  
**Preparation Method 3010A**  
 Preparation Date: 08/08/24

Arsenic	0.054	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.006	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.164	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.165	0.005	mg/L	
Iron	158	0.1	mg/L	
Lead	0.064	0.005	mg/L	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-04 (0-3)  
**Sample No:** 24-6393-029

**Date Collected:** 07/18/24  
**Time Collected:** 11:44  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/09/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/08/24		
Manganese	0.74	0.10	mg/L	
Nickel	0.2	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.3	0.1	mg/L	

<b>SPLP Mercury Method 1312</b> Analysis Date: 08/08/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.3	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	96.3	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	73.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	76	45	112
8270C	2-Fluorophenol (Surr)	%R:	62	41	84
8270C	d14-Terphenyl (Surr)	%R:	94	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	82	35	105
8270C	Phenol-d5 (surr)	%R:	80.5	50	100



## Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-04 (3-6)  
**Sample No:** 24-6393-030

**Date Collected:** 07/18/24  
**Time Collected:** 11:46  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/23/24				
Total Solids	84.72		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/31/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-04 (3-6)  
**Sample No:** 24-6393-030

**Date Collected:** 07/18/24  
**Time Collected:** 11:46  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/31/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 08/05/24				
Preparation Date: 07/30/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-04 (3-6)  
**Sample No:** 24-6393-030

**Date Collected:** 07/18/24  
**Time Collected:** 11:46  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/05/24		Preparation Date: 07/30/24		
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-04 (3-6)  
**Sample No:** 24-6393-030

**Date Collected:** 07/18/24  
**Time Collected:** 11:46  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 08/05/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/30/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/09/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 08/06/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.5	1.0	mg/kg	
Barium	50.0	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	55,900	50	mg/kg	
Chromium	16.8	0.5	mg/kg	
Cobalt	6.4	0.5	mg/kg	
Copper	20.0	0.5	mg/kg	
Iron	16,600	5.0	mg/kg	
Lead	9.1	0.5	mg/kg	
Magnesium	21,400	50	mg/kg	
Manganese	229	0.5	mg/kg	
Nickel	21.0	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	821	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	18.9	1.0	mg/kg	
Zinc	37.0	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 08/07/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/24/24 12:55				
pH @ 25°C, 1:2	8.88		Units	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-04 (3-6)  
**Sample No:** 24-6393-030

**Date Collected:** 07/18/24  
**Time Collected:** 11:46  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 08/02/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/08/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/08/24				
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	2.14	0.10	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	0.011	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 08/09/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 08/02/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/09/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/08/24				
Arsenic	0.070	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.007	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.206	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.248	0.005	mg/L	
Iron	207	0.1	mg/L	
Lead	0.092	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-04 (3-6)  
**Sample No:** 24-6393-030

**Date Collected:** 07/18/24  
**Time Collected:** 11:46  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/09/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/08/24		
Manganese	0.90	0.10	mg/L	
Nickel	0.3	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.4	0.1	mg/L	

<b>SPLP Mercury Method 1312</b> Analysis Date: 08/08/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.3	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	100	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	94.6	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	73.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	76	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	64	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	93	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	83	35 -	105
8270C	Phenol-d5 (surr)	%R:	78.5	50 -	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-05 (0-3)  
**Sample No:** 24-6393-031

**Date Collected:** 07/18/24  
**Time Collected:** 12:06  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/23/24				
Total Solids	79.03		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/31/24				
Acetone	< 200	200	ug/kg	
Benzene	6.7	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	7.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-05 (0-3)  
**Sample No:** 24-6393-031

**Date Collected:** 07/18/24  
**Time Collected:** 12:06  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/31/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 08/05/24				
Preparation Date: 07/30/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-05 (0-3)  
**Sample No:** 24-6393-031

**Date Collected:** 07/18/24  
**Time Collected:** 12:06  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/05/24		Preparation Date: 07/30/24		
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-05 (0-3)  
**Sample No:** 24-6393-031

**Date Collected:** 07/18/24  
**Time Collected:** 12:06  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 08/05/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/30/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/09/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 08/06/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	10.4	1.0	mg/kg	
Barium	50.3	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	0.6	0.5	mg/kg	
Calcium	44,700	50	mg/kg	
Chromium	17.5	0.5	mg/kg	
Cobalt	14.8	0.5	mg/kg	
Copper	37.3	0.5	mg/kg	
Iron	23,700	5.0	mg/kg	
Lead	16.6	0.5	mg/kg	
Magnesium	22,300	50	mg/kg	
Manganese	504	0.5	mg/kg	
Nickel	38.8	0.5	mg/kg	
Potassium	1,580	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	1,210	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	23.2	1.0	mg/kg	
Zinc	46.8	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 08/07/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/24/24 12:55				
pH @ 25°C, 1:2	8.78		Units	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-05 (0-3)  
**Sample No:** 24-6393-031

**Date Collected:** 07/18/24  
**Time Collected:** 12:06  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 08/02/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/09/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/07/24				
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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 08/09/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 08/02/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/09/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/08/24				
Arsenic	0.087	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.007	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.153	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.321	0.005	mg/L	
Iron	194	0.1	mg/L	
Lead	0.088	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-05 (0-3)  
**Sample No:** 24-6393-031

**Date Collected:** 07/18/24  
**Time Collected:** 12:06  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 08/09/24		Preparation Date: 08/08/24		
Manganese	0.72	0.10	mg/L	
Nickel	0.2	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.4	0.1	mg/L	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 08/08/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>Low</i>	<i>High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 97	86	117	
5035A/8260B	d8-Toluene (Surr)	%R: 99.7	90	110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 92.6	77	120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 76	59	131	
8270C	2-Fluorobiphenyl (Surr)	%R: 72	45	112	
8270C	2-Fluorophenol (Surr)	%R: 61	41	84	
8270C	d14-Terphenyl (Surr)	%R: 95	56	120	
8270C	d5-Nitrobenzene (Surr)	%R: 79	35	105	
8270C	Phenol-d5 (surr)	%R: 78.5	50	100	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-05 (3-6)  
**Sample No:** 24-6393-032

**Date Collected:** 07/18/24  
**Time Collected:** 12:08  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/23/24				
Total Solids	82.85		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/31/24				
Acetone	< 200	200	ug/kg	
Benzene	6.2	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	7.9	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-05 (3-6)  
**Sample No:** 24-6393-032

**Date Collected:** 07/18/24  
**Time Collected:** 12:08  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/31/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 08/05/24				
Preparation Date: 07/30/24				
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-05 (3-6)  
**Sample No:** 24-6393-032

**Date Collected:** 07/18/24  
**Time Collected:** 12:08  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/05/24		Preparation Date: 07/30/24		
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	
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	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-05 (3-6)  
**Sample No:** 24-6393-032

**Date Collected:** 07/18/24  
**Time Collected:** 12:08  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 08/05/24		Preparation Method 3540C		
		Preparation Date: 07/30/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/09/24		Preparation Method 3050B		
		Preparation Date: 08/06/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.3	1.0	mg/kg	
Barium	41.7	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	46,300	50	mg/kg	
Chromium	16.9	0.5	mg/kg	
Cobalt	10.1	0.5	mg/kg	
Copper	22.8	0.5	mg/kg	
Iron	19,700	5.0	mg/kg	
Lead	10.9	0.5	mg/kg	
Magnesium	21,100	50	mg/kg	
Manganese	351	0.5	mg/kg	
Nickel	29.8	0.5	mg/kg	
Potassium	1,860	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	1,020	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	21.5	1.0	mg/kg	
Zinc	43.2	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 08/07/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/24/24 12:55				
pH @ 25°C, 1:2	8.96		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-05 (3-6)  
**Sample No:** 24-6393-032

**Date Collected:** 07/18/24  
**Time Collected:** 12:08  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 08/02/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/08/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/08/24				
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	2.45	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 08/09/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 08/02/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/09/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/08/24				
Arsenic	0.098	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.008	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.238	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.330	0.005	mg/L	
Iron	249	0.1	mg/L	
Lead	0.105	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-05 (3-6)  
**Sample No:** 24-6393-032

**Date Collected:** 07/18/24  
**Time Collected:** 12:08  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 08/09/24				Preparation Date: 08/08/24
Manganese	1.23	0.10	mg/L	
Nickel	0.3	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.5	0.1	mg/L	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 08/08/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.5	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	92.7	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	76.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	84	45	112
8270C	2-Fluorophenol (Surr)	%R:	77.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	97	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	90	35	105
8270C	Phenol-d5 (surr)	%R:	89	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-01 (0-4)  
**Sample No:** 24-6393-019

**Date Collected:** 07/18/24  
**Time Collected:** 10:46  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/04/24		Preparation Date: 07/30/24		
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-01 (0-4)  
**Sample No:** 24-6393-019

**Date Collected:** 07/18/24  
**Time Collected:** 10:46  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/23/24				
Total Solids	84.94		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/31/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-01 (0-4)  
**Sample No:** 24-6393-019

**Date Collected:** 07/18/24  
**Time Collected:** 10:46  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/31/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 08/04/24				
Preparation Date: 07/30/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-01 (0-4)  
**Sample No:** 24-6393-019

**Date Collected:** 07/18/24  
**Time Collected:** 10:46  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/04/24		Preparation Date: 07/30/24		
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-01 (0-4)  
**Sample No:** 24-6393-019

**Date Collected:** 07/18/24  
**Time Collected:** 10:46  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 08/04/24		Preparation Method <b>3540C</b>		
		Preparation Date: 07/30/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/09/24		Preparation Method <b>3050B</b>		
		Preparation Date: 08/06/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.0	1.0	mg/kg	
Barium	131	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	6,680	50	mg/kg	
Chromium	27.6	0.5	mg/kg	
Cobalt	16.5	0.5	mg/kg	
Copper	29.1	0.5	mg/kg	
Iron	28,400	5.0	mg/kg	
Lead	18.1	0.5	mg/kg	
Magnesium	8,440	50	mg/kg	
Manganese	506	0.5	mg/kg	
Nickel	42.8	0.5	mg/kg	
Potassium	2,050	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	968	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	32.3	1.0	mg/kg	
Zinc	57.9	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 08/06/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/24/24 12:55				
pH @ 25°C, 1:2	8.64		Units	





**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-01 (0-4)  
**Sample No:** 24-6393-019

**Date Collected:** 07/18/24  
**Time Collected:** 10:46  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**  
 Analysis Date: 08/01/24  
 TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C**  
 Analysis Date: 08/09/24  
**Preparation Method 3010A**  
 Preparation Date: 08/07/24

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	0.22	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: 08/08/24  
 Mercury < 0.0005 0.0005 mg/L

**SPLP Extraction Method: 1312**  
 Analysis Date: 08/01/24  
 SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C**  
 Analysis Date: 08/08/24  
**Preparation Method 3010A**  
 Preparation Date: 08/08/24

Arsenic	0.022	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	0.056	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.074	0.005	mg/L	
Iron	61.2	0.1	mg/L	
Lead	0.036	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-01 (4-8)  
**Sample No:** 24-6393-020

**Date Collected:** 07/18/24  
**Time Collected:** 10:48  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/23/24				
Total Solids	86.01		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/31/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-01 (4-8)  
**Sample No:** 24-6393-020

**Date Collected:** 07/18/24  
**Time Collected:** 10:48  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/31/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/04/24				
Preparation Date: 07/30/24				
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-01 (4-8)  
**Sample No:** 24-6393-020

**Date Collected:** 07/18/24  
**Time Collected:** 10:48  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/04/24		Preparation Date: 07/30/24		
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-01 (4-8)  
**Sample No:** 24-6393-020

**Date Collected:** 07/18/24  
**Time Collected:** 10:48  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 08/04/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/30/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/09/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 08/06/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.6	1.0	mg/kg	
Barium	38.3	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	36,700	50	mg/kg	
Chromium	17.5	0.5	mg/kg	
Cobalt	12.5	0.5	mg/kg	
Copper	29.2	0.5	mg/kg	
Iron	20,700	5.0	mg/kg	
Lead	14.1	0.5	mg/kg	
Magnesium	19,000	50	mg/kg	
Manganese	432	0.5	mg/kg	
Nickel	30.5	0.5	mg/kg	
Potassium	1,600	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	575	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	20.8	1.0	mg/kg	
Zinc	44.9	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 08/07/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/24/24 12:55				
pH @ 25°C, 1:2	8.55		Units	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-01 (4-8)  
**Sample No:** 24-6393-020

**Date Collected:** 07/18/24  
**Time Collected:** 10:48  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 08/01/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/09/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/07/24				
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	3.10	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 08/08/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 08/01/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/08/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/08/24				
Arsenic	0.018	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	0.055	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.061	0.005	mg/L	
Iron	56.6	0.1	mg/L	
Lead	0.022	0.005	mg/L	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-01 (4-8)  
**Sample No:** 24-6393-020

**Date Collected:** 07/18/24  
**Time Collected:** 10:48  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/08/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/08/24		
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	

<b>SPLP Mercury Method 1312</b> Analysis Date: 08/08/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>			
Method	Analyte	QC Result	%R Limits Low High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 97.3	86 - 117
5035A/8260B	d8-Toluene (Surr)	%R: 100.8	90 - 110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 94.2	77 - 120
8270C	2,4,6-Tribromophenol (Surr)	%R: 71	59 - 131
8270C	2-Fluorobiphenyl (Surr)	%R: 83	45 - 112
8270C	2-Fluorophenol (Surr)	%R: 72.5	41 - 84
8270C	d14-Terphenyl (Surr)	%R: 81	56 - 120
8270C	d5-Nitrobenzene (Surr)	%R: 84	35 - 105
8270C	Phenol-d5 (surr)	%R: 89	50 - 100



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-01 (8-11)  
**Sample No:** 24-6393-021

**Date Collected:** 07/18/24  
**Time Collected:** 10:50  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/23/24				
Total Solids	84.66		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/31/24				
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	42.4	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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-01 (8-11)  
**Sample No:** 24-6393-021

**Date Collected:** 07/18/24  
**Time Collected:** 10:50  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/31/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 08/05/24				
Preparation Date: 07/30/24				
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-01 (8-11)  
**Sample No:** 24-6393-021

**Date Collected:** 07/18/24  
**Time Collected:** 10:50  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/05/24		Preparation Date: 07/30/24		
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-01 (8-11)  
**Sample No:** 24-6393-021

**Date Collected:** 07/18/24  
**Time Collected:** 10:50  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 08/05/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/30/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/09/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 08/06/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	9.5	1.0	mg/kg	
Barium	35.1	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	48,100	50	mg/kg	
Chromium	16.1	0.5	mg/kg	
Cobalt	9.7	0.5	mg/kg	
Copper	34.4	0.5	mg/kg	
Iron	21,900	5.0	mg/kg	
Lead	23.7	0.5	mg/kg	
Magnesium	23,300	50	mg/kg	
Manganese	302	0.5	mg/kg	
Nickel	29.6	0.5	mg/kg	
Potassium	1,830	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	667	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	20.8	1.0	mg/kg	
Zinc	50.1	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 08/07/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/24/24 12:55				
pH @ 25°C, 1:2	8.65		Units	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-01 (8-11)  
**Sample No:** 24-6393-021

**Date Collected:** 07/18/24  
**Time Collected:** 10:50  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 08/02/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/09/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/07/24				
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	0.83	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 08/08/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 08/02/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/08/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/08/24				
Arsenic	0.017	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	0.041	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.073	0.005	mg/L	
Iron	46.6	0.1	mg/L	
Lead	0.030	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-01 (8-11)  
**Sample No:** 24-6393-021

**Date Collected:** 07/18/24  
**Time Collected:** 10:50  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/08/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/08/24		
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	

<b>SPLP Mercury Method 1312</b> Analysis Date: 08/08/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.3	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	100	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	96.8	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	70.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	75	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	59.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	90	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	81	35 -	105
8270C	Phenol-d5 (surr)	%R:	77.5	50 -	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-02 (0-4)  
**Sample No:** 24-6393-016

**Date Collected:** 07/18/24  
**Time Collected:** 10:28  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/23/24				
Total Solids	76.50		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/31/24				
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	9.5	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-02 (0-4)  
**Sample No:** 24-6393-016

**Date Collected:** 07/18/24  
**Time Collected:** 10:28  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/31/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 08/01/24				
Preparation Date: 07/30/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-02 (0-4)  
**Sample No:** 24-6393-016

**Date Collected:** 07/18/24  
**Time Collected:** 10:28  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/01/24		Preparation Date: 07/30/24		
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	
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	





**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-02 (0-4)  
**Sample No:** 24-6393-016

**Date Collected:** 07/18/24  
**Time Collected:** 10:28  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 08/01/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/30/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/09/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 08/06/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.2	1.0	mg/kg	
Barium	104	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	0.5	0.5	mg/kg	
Calcium	18,200	50	mg/kg	
Chromium	21.8	0.5	mg/kg	
Cobalt	11.5	0.5	mg/kg	
Copper	25.5	0.5	mg/kg	
Iron	25,700	5.0	mg/kg	
Lead	24.3	0.5	mg/kg	
Magnesium	9,920	50	mg/kg	
Manganese	364	0.5	mg/kg	
Nickel	30.1	0.5	mg/kg	
Potassium	2,590	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	1,190	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	31.9	1.0	mg/kg	
Zinc	54.5	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 08/06/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/24/24 12:55				
pH @ 25°C, 1:2	8.13		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-02 (0-4)  
**Sample No:** 24-6393-016

**Date Collected:** 07/18/24  
**Time Collected:** 10:28  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 08/01/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/09/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/07/24				
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	0.93	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 08/08/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 08/01/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/08/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/08/24				
Arsenic	0.023	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	0.075	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.078	0.005	mg/L	
Iron	81.9	0.1	mg/L	
Lead	0.047	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-02 (0-4)  
**Sample No:** 24-6393-016

**Date Collected:** 07/18/24  
**Time Collected:** 10:28  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 08/08/24		Preparation Date: 08/08/24		
Manganese	0.51	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	0.2	0.1	mg/L	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 08/07/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>Low</i>	<i>High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 98.8	86	117	
5035A/8260B	d8-Toluene (Surr)	%R: 102.6	90	110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 93.7	77	120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 100	59	131	
8270C	2-Fluorobiphenyl (Surr)	%R: 76	45	112	
8270C	2-Fluorophenol (Surr)	%R: 63.5	41	84	
8270C	d14-Terphenyl (Surr)	%R: 98	56	120	
8270C	d5-Nitrobenzene (Surr)	%R: 78	35	105	
8270C	Phenol-d5 (surr)	%R: 73	50	100	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-02 (4-8)  
**Sample No:** 24-6393-017

**Date Collected:** 07/18/24  
**Time Collected:** 10:30  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/23/24				
Total Solids	79.84		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/31/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-02 (4-8)  
**Sample No:** 24-6393-017

**Date Collected:** 07/18/24  
**Time Collected:** 10:30  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/31/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 08/04/24				
Preparation Date: 07/30/24				
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-02 (4-8)  
**Sample No:** 24-6393-017

**Date Collected:** 07/18/24  
**Time Collected:** 10:30  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/04/24		Preparation Date: 07/30/24		
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-02 (4-8)  
**Sample No:** 24-6393-017

**Date Collected:** 07/18/24  
**Time Collected:** 10:30  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 08/04/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/30/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/09/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 08/06/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.7	1.0	mg/kg	
Barium	65.1	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	0.5	0.5	mg/kg	
Calcium	37,600	50	mg/kg	
Chromium	20.2	0.5	mg/kg	
Cobalt	10.0	0.5	mg/kg	
Copper	27.4	0.5	mg/kg	
Iron	20,200	5.0	mg/kg	
Lead	20.8	0.5	mg/kg	
Magnesium	17,600	50	mg/kg	
Manganese	344	0.5	mg/kg	
Nickel	28.8	0.5	mg/kg	
Potassium	2,080	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	1,530	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	27.5	1.0	mg/kg	
Zinc	53.1	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 08/06/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/24/24 12:55				
pH @ 25°C, 1:2	8.64		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-02 (4-8)  
**Sample No:** 24-6393-017

**Date Collected:** 07/18/24  
**Time Collected:** 10:30  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**  
 Analysis Date: 08/01/24  
 TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C**  
 Analysis Date: 08/09/24  
**Preparation Method 3010A**  
 Preparation Date: 08/07/24

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	0.2	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	5.96	0.10	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	0.011	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: 08/08/24  
 Mercury < 0.0005 0.0005 mg/L

**SPLP Extraction Method: 1312**  
 Analysis Date: 08/01/24  
 SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C**  
 Analysis Date: 08/08/24  
**Preparation Method 3010A**  
 Preparation Date: 08/08/24

Arsenic	0.039	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	0.092	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.115	0.005	mg/L	
Iron	98.5	0.1	mg/L	
Lead	0.049	0.005	mg/L	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-02 (4-8)  
**Sample No:** 24-6393-017

**Date Collected:** 07/18/24  
**Time Collected:** 10:30  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 08/08/24		Preparation Date: 08/08/24		
Manganese	1.21	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	0.2	0.1	mg/L	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 08/07/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
Method	Analyte	QC Result	Low	High	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 97	86	117	
5035A/8260B	d8-Toluene (Surr)	%R: 100.1	90	110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 96.9	77	120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 74.5	59	131	
8270C	2-Fluorobiphenyl (Surr)	%R: 82	45	112	
8270C	2-Fluorophenol (Surr)	%R: 68	41	84	
8270C	d14-Terphenyl (Surr)	%R: 89	56	120	
8270C	d5-Nitrobenzene (Surr)	%R: 81	35	105	
8270C	Phenol-d5 (surr)	%R: 81	50	100	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-02 (8-11)  
**Sample No:** 24-6393-018

**Date Collected:** 07/18/24  
**Time Collected:** 10:32  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/23/24				
Total Solids	81.25		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/31/24				
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	7.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-02 (8-11)  
**Sample No:** 24-6393-018

**Date Collected:** 07/18/24  
**Time Collected:** 10:32  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/31/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 08/04/24				
Preparation Date: 07/30/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-02 (8-11)  
**Sample No:** 24-6393-018

**Date Collected:** 07/18/24  
**Time Collected:** 10:32  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/04/24		Preparation Date: 07/30/24		
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-02 (8-11)  
**Sample No:** 24-6393-018

**Date Collected:** 07/18/24  
**Time Collected:** 10:32  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 08/04/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/30/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/09/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 08/06/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.8	1.0	mg/kg	
Barium	42.6	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	90,600	50	mg/kg	
Chromium	10.4	0.5	mg/kg	
Cobalt	15.8	0.5	mg/kg	
Copper	11.7	0.5	mg/kg	
Iron	11,500	5.0	mg/kg	
Lead	8.6	0.5	mg/kg	
Magnesium	54,400	50	mg/kg	
Manganese	355	0.5	mg/kg	
Nickel	17.6	0.5	mg/kg	
Potassium	1,490	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	681	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	13.5	1.0	mg/kg	
Zinc	25.3	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 08/06/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/24/24 12:55				
pH @ 25°C, 1:2	8.77		Units	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-02 (8-11)  
**Sample No:** 24-6393-018

**Date Collected:** 07/18/24  
**Time Collected:** 10:32  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 08/01/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/09/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/07/24				
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	3.64	0.10	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	0.012	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 08/08/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 08/01/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/08/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/08/24				
Arsenic	0.039	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	0.098	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.106	0.005	mg/L	
Iron	98.4	0.1	mg/L	
Lead	0.049	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-02 (8-11)  
**Sample No:** 24-6393-018

**Date Collected:** 07/18/24  
**Time Collected:** 10:32  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/08/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/08/24		
Manganese	0.49	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	0.2	0.1	mg/L	

<b>SPLP Mercury Method 1312</b> Analysis Date: 08/07/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	94.1	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	73.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	87	45	112
8270C	2-Fluorophenol (Surr)	%R:	69	41	84
8270C	d14-Terphenyl (Surr)	%R:	87	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	88	35	105
8270C	Phenol-d5 (surr)	%R:	87	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-03 (0-4)  
**Sample No:** 24-6393-013

**Date Collected:** 07/18/24  
**Time Collected:** 10:20  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/23/24				
Total Solids	79.48		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/31/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-03 (0-4)  
**Sample No:** 24-6393-013

**Date Collected:** 07/18/24  
**Time Collected:** 10:20  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/31/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 08/01/24				
Preparation Date: 07/30/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-03 (0-4)  
**Sample No:** 24-6393-013

**Date Collected:** 07/18/24  
**Time Collected:** 10:20  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/01/24		Preparation Date: 07/30/24		
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-03 (0-4)  
**Sample No:** 24-6393-013

**Date Collected:** 07/18/24  
**Time Collected:** 10:20  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 08/01/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/30/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/06/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 08/05/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.1	1.0	mg/kg	
Barium	67.8	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	19,000	50	mg/kg	
Chromium	20.1	0.5	mg/kg	
Cobalt	13.0	0.5	mg/kg	
Copper	24.3	0.5	mg/kg	
Iron	21,000	5.0	mg/kg	
Lead	14.6	0.5	mg/kg	
Magnesium	10,200	50	mg/kg	
Manganese	489	0.5	mg/kg	
Nickel	30.8	0.5	mg/kg	
Potassium	1,800	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,400	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	27.0	1.0	mg/kg	
Zinc	51.0	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 08/06/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/24/24 12:55				
pH @ 25°C, 1:2	8.73		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-03 (0-4)  
**Sample No:** 24-6393-013

**Date Collected:** 07/18/24  
**Time Collected:** 10:20  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**

Analysis Date: 08/01/24

TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A**

Analysis Date: 08/09/24

Preparation Date: 08/07/24

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	2.25	0.10	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	0.011	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: 08/08/24

Mercury < 0.0005 0.0005 mg/L

**SPLP Extraction Method: 1312**

Analysis Date: 08/01/24

SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A**

Analysis Date: 08/08/24

Preparation Date: 08/08/24

Arsenic	0.024	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	0.071	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.081	0.005	mg/L	
Iron	70.0	0.1	mg/L	
Lead	0.035	0.005	mg/L	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-03 (0-4)  
**Sample No:** 24-6393-013

**Date Collected:** 07/18/24  
**Time Collected:** 10:20  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/08/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/08/24		
Manganese	0.39	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	0.2	0.1	mg/L	

<b>SPLP Mercury Method 1312</b> Analysis Date: 08/07/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	94.6	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.6	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	93.9	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	102	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	72	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	67.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	96	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	77	35 -	105
8270C	Phenol-d5 (surr)	%R:	75.5	50 -	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-03 (4-8)  
**Sample No:** 24-6393-014

**Date Collected:** 07/18/24  
**Time Collected:** 10:22  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/23/24				
Total Solids	78.12		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/31/24				
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	5.3	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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-03 (4-8)  
**Sample No:** 24-6393-014

**Date Collected:** 07/18/24  
**Time Collected:** 10:22  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/31/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 08/02/24				
Preparation Date: 07/30/24				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	401	330	ug/kg	
Benzo(a)pyrene	426	90	ug/kg	
Benzo(b)fluoranthene	633	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	341	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	489	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-03 (4-8)  
**Sample No:** 24-6393-014

**Date Collected:** 07/18/24  
**Time Collected:** 10:22  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/02/24		Preparation Date: 07/30/24		
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	900	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	357	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	
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	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-03 (4-8)  
**Sample No:** 24-6393-014

**Date Collected:** 07/18/24  
**Time Collected:** 10:22  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 08/02/24		Preparation Method 3540C		
		Preparation Date: 07/30/24		
Pyrene	813	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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/09/24		Preparation Method 3050B		
		Preparation Date: 08/06/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.3	1.0	mg/kg	
Barium	47.7	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	34,800	50	mg/kg	
Chromium	19.0	0.5	mg/kg	
Cobalt	10.6	0.5	mg/kg	
Copper	32.7	0.5	mg/kg	
Iron	23,100	5.0	mg/kg	
Lead	16.5	0.5	mg/kg	
Magnesium	23,100	50	mg/kg	
Manganese	313	0.5	mg/kg	
Nickel	31.7	0.5	mg/kg	
Potassium	1,950	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	665	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	24.4	1.0	mg/kg	
Zinc	49.5	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 08/06/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/24/24 12:55				
pH @ 25°C, 1:2	8.63		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-03 (4-8)  
**Sample No:** 24-6393-014

**Date Collected:** 07/18/24  
**Time Collected:** 10:22  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 08/01/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/09/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/07/24				
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	0.11	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 08/08/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 08/01/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/08/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/08/24				
Arsenic	0.027	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	0.074	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.098	0.005	mg/L	
Iron	80.5	0.1	mg/L	
Lead	0.041	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-03 (4-8)  
**Sample No:** 24-6393-014

**Date Collected:** 07/18/24  
**Time Collected:** 10:22  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 08/08/24		Preparation Date: 08/08/24		
Manganese	0.29	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	0.2	0.1	mg/L	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 08/07/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	93.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	96	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	74	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	76	45	112
8270C	2-Fluorophenol (Surr)	%R:	62.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	103	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	79	35	105
8270C	Phenol-d5 (surr)	%R:	81	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-03 (8-11)  
**Sample No:** 24-6393-015

**Date Collected:** 07/18/24  
**Time Collected:** 10:24  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/23/24				
Total Solids	75.28		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/31/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-03 (8-11)  
**Sample No:** 24-6393-015

**Date Collected:** 07/18/24  
**Time Collected:** 10:24  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/31/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 08/01/24				
Preparation Date: 07/30/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-03 (8-11)  
**Sample No:** 24-6393-015

**Date Collected:** 07/18/24  
**Time Collected:** 10:24  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/01/24		Preparation Date: 07/30/24		
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-03 (8-11)  
**Sample No:** 24-6393-015

**Date Collected:** 07/18/24  
**Time Collected:** 10:24  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 08/01/24		Preparation Method 3540C		
		Preparation Date: 07/30/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/09/24		Preparation Method 3050B		
		Preparation Date: 08/06/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.6	1.0	mg/kg	
Barium	29.6	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	52,300	50	mg/kg	
Chromium	19.8	0.5	mg/kg	
Cobalt	11.3	0.5	mg/kg	
Copper	24.1	0.5	mg/kg	
Iron	19,600	5.0	mg/kg	
Lead	11.8	0.5	mg/kg	
Magnesium	24,700	50	mg/kg	
Manganese	342	0.5	mg/kg	
Nickel	31.9	0.5	mg/kg	
Potassium	2,630	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	24.6	1.0	mg/kg	
Zinc	46.3	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 08/06/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/24/24 12:55				
pH @ 25°C, 1:2	8.36		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-03 (8-11)  
**Sample No:** 24-6393-015

**Date Collected:** 07/18/24  
**Time Collected:** 10:24  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 08/01/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/09/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/07/24				
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	0.97	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 08/08/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 08/01/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/08/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/08/24				
Arsenic	0.017	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	0.049	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.047	0.005	mg/L	
Iron	46.9	0.1	mg/L	
Lead	0.032	0.005	mg/L	





**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-03 (8-11)  
**Sample No:** 24-6393-015

**Date Collected:** 07/18/24  
**Time Collected:** 10:24  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/08/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/08/24		
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	

<b>SPLP Mercury Method 1312</b> Analysis Date: 08/07/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.8	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.5	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	97.9	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	98	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	68	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	53	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	94	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	72	35 -	105
8270C	Phenol-d5 (surr)	%R:	65	50 -	100



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-04 (0-4)  
**Sample No:** 24-6393-010

**Date Collected:** 07/18/24  
**Time Collected:** 9:54  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/23/24				
Total Solids	83.79		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/26/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-04 (0-4)  
**Sample No:** 24-6393-010

**Date Collected:** 07/18/24  
**Time Collected:** 9:54  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/26/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 08/01/24				
Preparation Date: 07/30/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-04 (0-4)  
**Sample No:** 24-6393-010

**Date Collected:** 07/18/24  
**Time Collected:** 9:54  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/01/24		Preparation Date: 07/30/24		
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-04 (0-4)  
**Sample No:** 24-6393-010

**Date Collected:** 07/18/24  
**Time Collected:** 9:54  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 08/01/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/30/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/06/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 08/05/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.8	1.0	mg/kg	
Barium	62.5	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	47,900	50	mg/kg	
Chromium	16.4	0.5	mg/kg	
Cobalt	8.8	0.5	mg/kg	
Copper	30.5	0.5	mg/kg	
Iron	21,000	5.0	mg/kg	
Lead	17.0	0.5	mg/kg	
Magnesium	26,500	50	mg/kg	
Manganese	317	0.5	mg/kg	
Nickel	25.2	0.5	mg/kg	
Potassium	1,550	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,090	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	24.1	1.0	mg/kg	
Zinc	49.6	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 08/06/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/24/24 12:55				
pH @ 25°C, 1:2	8.82		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-04 (0-4)  
**Sample No:** 24-6393-010

**Date Collected:** 07/18/24  
**Time Collected:** 9:54  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 08/01/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/07/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/07/24				
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	0.38	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 08/08/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 08/01/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/08/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/07/24				
Arsenic	0.015	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	0.042	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.055	0.005	mg/L	
Iron	44.4	0.1	mg/L	
Lead	0.018	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-04 (0-4)  
**Sample No:** 24-6393-010

**Date Collected:** 07/18/24  
**Time Collected:** 9:54  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 08/08/24		Preparation Date: 08/07/24		
Manganese	0.21	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	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 08/07/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.2	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.7	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	95.5	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	109.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	87	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	68	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	106	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	82	35 -	105
8270C	Phenol-d5 (surr)	%R:	76.5	50 -	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-04 (4-8)  
**Sample No:** 24-6393-011

**Date Collected:** 07/18/24  
**Time Collected:** 9:56  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/23/24				
Total Solids	80.05		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/26/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-04 (4-8)  
**Sample No:** 24-6393-011

**Date Collected:** 07/18/24  
**Time Collected:** 9:56  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/26/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/01/24				
Preparation Date: 07/30/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-04 (4-8)  
**Sample No:** 24-6393-011

**Date Collected:** 07/18/24  
**Time Collected:** 9:56  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/01/24		Preparation Date: 07/30/24		
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-04 (4-8)  
**Sample No:** 24-6393-011

**Date Collected:** 07/18/24  
**Time Collected:** 9:56  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 08/01/24		Preparation Method 3540C		
		Preparation Date: 07/30/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/06/24		Preparation Method 3050B		
		Preparation Date: 08/05/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.2	1.0	mg/kg	
Barium	62.8	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	36,400	50	mg/kg	
Chromium	17.5	0.5	mg/kg	
Cobalt	13.1	0.5	mg/kg	
Copper	25.3	0.5	mg/kg	
Iron	19,900	5.0	mg/kg	
Lead	15.8	0.5	mg/kg	
Magnesium	16,900	50	mg/kg	
Manganese	622	0.5	mg/kg	
Nickel	30.8	0.5	mg/kg	
Potassium	1,700	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	756	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	23.5	1.0	mg/kg	
Zinc	44.9	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 08/06/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/24/24 12:55				
pH @ 25°C, 1:2	8.58		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-04 (4-8)  
**Sample No:** 24-6393-011

**Date Collected:** 07/18/24  
**Time Collected:** 9:56  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**  
 Analysis Date: 08/01/24  
 TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A**  
 Analysis Date: 08/09/24 Preparation Date: 08/07/24

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	0.12	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: 08/08/24  
 Mercury < 0.0005 0.0005 mg/L

**SPLP Extraction Method: 1312**  
 Analysis Date: 08/01/24  
 SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A**  
 Analysis Date: 08/08/24 Preparation Date: 08/08/24

Arsenic	0.017	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	0.042	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.061	0.005	mg/L	
Iron	47.6	0.1	mg/L	
Lead	0.022	0.005	mg/L	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-04 (4-8)  
**Sample No:** 24-6393-011

**Date Collected:** 07/18/24  
**Time Collected:** 9:56  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/08/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/08/24		
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	

<b>SPLP Mercury Method 1312</b> Analysis Date: 08/07/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	102.2	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.1	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	95.8	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	113	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	80	45	112
8270C	2-Fluorophenol (Surr)	%R:	67	41	84
8270C	d14-Terphenyl (Surr)	%R:	107	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	80	35	105
8270C	Phenol-d5 (surr)	%R:	77.5	50	100



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-04 (8-11)  
**Sample No:** 24-6393-012

**Date Collected:** 07/18/24  
**Time Collected:** 9:58  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/23/24				
Total Solids	81.80		%	

<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/31/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-04 (8-11)  
**Sample No:** 24-6393-012

**Date Collected:** 07/18/24  
**Time Collected:** 9:58  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/31/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 08/01/24				
Preparation Date: 07/30/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-04 (8-11)  
**Sample No:** 24-6393-012

**Date Collected:** 07/18/24  
**Time Collected:** 9:58  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/01/24		Preparation Date: 07/30/24		
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	
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	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-04 (8-11)  
**Sample No:** 24-6393-012

**Date Collected:** 07/18/24  
**Time Collected:** 9:58  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 08/01/24		Preparation Method <b>3540C</b>		
		Preparation Date: 07/30/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/06/24		Preparation Method <b>3050B</b>		
		Preparation Date: 08/05/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.5	1.0	mg/kg	
Barium	39.1	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	48,700	50	mg/kg	
Chromium	18.9	0.5	mg/kg	
Cobalt	8.4	0.5	mg/kg	
Copper	23.8	0.5	mg/kg	
Iron	19,900	5.0	mg/kg	
Lead	10.7	0.5	mg/kg	
Magnesium	22,200	50	mg/kg	
Manganese	248	0.5	mg/kg	
Nickel	27.4	0.5	mg/kg	
Potassium	2,400	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	397	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	23.4	1.0	mg/kg	
Zinc	41.5	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 08/06/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/24/24 12:55				
pH @ 25°C, 1:2	8.32		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-04 (8-11)  
**Sample No:** 24-6393-012

**Date Collected:** 07/18/24  
**Time Collected:** 9:58  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**  
 Analysis Date: 08/01/24  
 TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C**  
 Analysis Date: 08/09/24  
**Preparation Method 3010A**  
 Preparation Date: 08/07/24

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	3.46	0.10	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	0.012	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: 08/08/24  
 Mercury < 0.0005 0.0005 mg/L

**SPLP Extraction Method: 1312**  
 Analysis Date: 08/01/24  
 SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C**  
 Analysis Date: 08/08/24  
**Preparation Method 3010A**  
 Preparation Date: 08/08/24

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	0.017	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.014	0.005	mg/L	
Iron	11.9	0.1	mg/L	
Lead	0.005	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-04 (8-11)  
**Sample No:** 24-6393-012

**Date Collected:** 07/18/24  
**Time Collected:** 9:58  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 08/08/24		Preparation Date: 08/08/24		
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	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 08/07/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>Low</i>	<i>High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 96.8	86	117	
5035A/8260B	d8-Toluene (Surr)	%R: 100.5	90	110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 95.5	77	120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 92	59	131	
8270C	2-Fluorobiphenyl (Surr)	%R: 71	45	112	
8270C	2-Fluorophenol (Surr)	%R: 70	41	84	
8270C	d14-Terphenyl (Surr)	%R: 93	56	120	
8270C	d5-Nitrobenzene (Surr)	%R: 79	35	105	
8270C	Phenol-d5 (surr)	%R: 77.5	50	100	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** DUP-23  
**Sample No:** 24-6393-038

**Date Collected:** 07/18/24  
**Time Collected:** 11:38  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/23/24				
Total Solids	79.13		%	

<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/31/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** DUP-23  
**Sample No:** 24-6393-038

**Date Collected:** 07/18/24  
**Time Collected:** 11:38  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/31/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 08/02/24				
Preparation Date: 07/31/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** DUP-23  
**Sample No:** 24-6393-038

**Date Collected:** 07/18/24  
**Time Collected:** 11:38  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/02/24		Preparation Date: 07/31/24		
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** DUP-23  
**Sample No:** 24-6393-038

**Date Collected:** 07/18/24  
**Time Collected:** 11:38  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 08/02/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/31/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/07/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 08/06/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.2	1.0	mg/kg	
Barium	53.4	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	35,500	50	mg/kg	
Chromium	17.5	0.5	mg/kg	
Cobalt	8.0	0.5	mg/kg	
Copper	30.2	0.5	mg/kg	
Iron	21,400	5.0	mg/kg	
Lead	14.2	0.5	mg/kg	
Magnesium	17,600	50	mg/kg	
Manganese	283	0.5	mg/kg	
Nickel	27.1	0.5	mg/kg	
Potassium	1,830	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	748	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	24.0	1.0	mg/kg	
Zinc	48.7	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 08/07/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/25/24 11:30				
pH @ 25°C, 1:2	8.73		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** DUP-23  
**Sample No:** 24-6393-038

**Date Collected:** 07/18/24  
**Time Collected:** 11:38  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 08/02/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/08/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/08/24				
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	2.12	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 08/09/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 08/02/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/09/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/08/24				
Arsenic	0.081	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.007	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.181	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.250	0.005	mg/L	
Iron	195	0.1	mg/L	
Lead	0.102	0.005	mg/L	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** DUP-23  
**Sample No:** 24-6393-038

**Date Collected:** 07/18/24  
**Time Collected:** 11:38  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 08/09/24				Preparation Date: 08/08/24
Manganese	0.82	0.10	mg/L	
Nickel	0.2	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.4	0.1	mg/L	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 08/08/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
Method	Analyte	QC Result	Low	High	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 97.7	86	117	
5035A/8260B	d8-Toluene (Surr)	%R: 100.4	90	110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 95.4	77	120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 73.5	59	131	
8270C	2-Fluorobiphenyl (Surr)	%R: 79	45	112	
8270C	2-Fluorophenol (Surr)	%R: 67	41	84	
8270C	d14-Terphenyl (Surr)	%R: 102	56	120	
8270C	d5-Nitrobenzene (Surr)	%R: 80	35	105	
8270C	Phenol-d5 (surr)	%R: 83	50	100	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-05 (0-4)  
**Sample No:** 24-6393-007

**Date Collected:** 07/18/24  
**Time Collected:** 9:46  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/23/24				
Total Solids	82.38		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/26/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-05 (0-4)  
**Sample No:** 24-6393-007

**Date Collected:** 07/18/24  
**Time Collected:** 9:46  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/26/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/01/24				
Preparation Date: 07/30/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-05 (0-4)  
**Sample No:** 24-6393-007

**Date Collected:** 07/18/24  
**Time Collected:** 9:46  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/01/24		Preparation Date: 07/30/24		
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-05 (0-4)  
**Sample No:** 24-6393-007

**Date Collected:** 07/18/24  
**Time Collected:** 9:46  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 08/01/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/30/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/06/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 08/05/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.7	1.0	mg/kg	
Barium	77.2	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	27,200	50	mg/kg	
Chromium	17.9	0.5	mg/kg	
Cobalt	11.4	0.5	mg/kg	
Copper	36.9	0.5	mg/kg	
Iron	22,400	5.0	mg/kg	
Lead	29.0	0.5	mg/kg	
Magnesium	15,600	50	mg/kg	
Manganese	379	0.5	mg/kg	
Nickel	31.3	0.5	mg/kg	
Potassium	1,920	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	772	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	24.7	1.0	mg/kg	
Zinc	64.8	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 08/06/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/24/24 12:55				
pH @ 25°C, 1:2	8.64		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-05 (0-4)  
**Sample No:** 24-6393-007

**Date Collected:** 07/18/24  
**Time Collected:** 9:46  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**  
 Analysis Date: 08/01/24  
 TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C**  
 Analysis Date: 08/07/24  
**Preparation Method 3010A**  
 Preparation Date: 08/07/24

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: 08/07/24  
 Mercury < 0.0005 0.0005 mg/L

**SPLP Extraction Method: 1312**  
 Analysis Date: 08/01/24  
 SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C**  
 Analysis Date: 08/08/24  
**Preparation Method 3010A**  
 Preparation Date: 08/07/24

Arsenic	0.020	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	0.041	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.086	0.005	mg/L	
Iron	42.9	0.1	mg/L	
Lead	0.026	0.005	mg/L	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-05 (0-4)  
**Sample No:** 24-6393-007

**Date Collected:** 07/18/24  
**Time Collected:** 9:46  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/08/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/07/24		
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	

<b>SPLP Mercury Method 1312</b> Analysis Date: 08/07/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<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:	98	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	96.6	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	107.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	83	45	112
8270C	2-Fluorophenol (Surr)	%R:	68.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	101	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	81	35	105
8270C	Phenol-d5 (surr)	%R:	77.5	50	100



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-05 (4-8)  
**Sample No:** 24-6393-008

**Date Collected:** 07/18/24  
**Time Collected:** 9:48  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/23/24				
Total Solids	77.24		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/26/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-05 (4-8)  
**Sample No:** 24-6393-008

**Date Collected:** 07/18/24  
**Time Collected:** 9:48  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/26/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 08/01/24				
Preparation Date: 07/30/24				
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-05 (4-8)  
**Sample No:** 24-6393-008

**Date Collected:** 07/18/24  
**Time Collected:** 9:48  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/01/24		Preparation Date: 07/30/24		
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-05 (4-8)  
**Sample No:** 24-6393-008

**Date Collected:** 07/18/24  
**Time Collected:** 9:48  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 08/01/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/30/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/06/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 08/05/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.9	1.0	mg/kg	
Barium	61.7	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	29,400	50	mg/kg	
Chromium	19.0	0.5	mg/kg	
Cobalt	10.0	0.5	mg/kg	
Copper	28.3	0.5	mg/kg	
Iron	24,300	5.0	mg/kg	
Lead	15.5	0.5	mg/kg	
Magnesium	14,600	50	mg/kg	
Manganese	252	0.5	mg/kg	
Nickel	30.1	0.5	mg/kg	
Potassium	2,010	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	735	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	27.5	1.0	mg/kg	
Zinc	53.4	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 08/06/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/24/24 12:55				
pH @ 25°C, 1:2	8.02		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-05 (4-8)  
**Sample No:** 24-6393-008

**Date Collected:** 07/18/24  
**Time Collected:** 9:48  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**  
 Analysis Date: 08/01/24  
 TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A**  
 Analysis Date: 08/07/24 Preparation Date: 08/07/24

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	0.13	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: 08/08/24  
 Mercury < 0.0005 0.0005 mg/L

**SPLP Extraction Method: 1312**  
 Analysis Date: 08/01/24  
 SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A**  
 Analysis Date: 08/08/24 Preparation Date: 08/07/24

Arsenic	0.031	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	0.072	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.084	0.005	mg/L	
Iron	100	0.1	mg/L	
Lead	0.054	0.005	mg/L	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-05 (4-8)  
**Sample No:** 24-6393-008

**Date Collected:** 07/18/24  
**Time Collected:** 9:48  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 08/08/24		Preparation Date: 08/07/24		
Manganese	0.27	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	0.2	0.1	mg/L	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 08/07/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	103.1	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	97.3	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	94.9	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	108	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	85	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	76.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	104	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	84	35 -	105
8270C	Phenol-d5 (surr)	%R:	82.5	50 -	100



## Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-05 (8-11)  
**Sample No:** 24-6393-009

**Date Collected:** 07/18/24  
**Time Collected:** 9:50  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/23/24				
Total Solids	81.13		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/26/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-05 (8-11)  
**Sample No:** 24-6393-009

**Date Collected:** 07/18/24  
**Time Collected:** 9:50  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/26/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/01/24				
Preparation Date: 07/30/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-05 (8-11)  
**Sample No:** 24-6393-009

**Date Collected:** 07/18/24  
**Time Collected:** 9:50  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/01/24		Preparation Date: 07/30/24		
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	
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	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-05 (8-11)  
**Sample No:** 24-6393-009

**Date Collected:** 07/18/24  
**Time Collected:** 9:50  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 08/01/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/30/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/06/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 08/05/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.5	1.0	mg/kg	
Barium	34.3	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	39,200	50	mg/kg	
Chromium	16.2	0.5	mg/kg	
Cobalt	7.7	0.5	mg/kg	
Copper	41.7	0.5	mg/kg	
Iron	20,400	5.0	mg/kg	
Lead	23.5	0.5	mg/kg	
Magnesium	24,100	50	mg/kg	
Manganese	280	0.5	mg/kg	
Nickel	27.7	0.5	mg/kg	
Potassium	1,590	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	519	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	21.3	1.0	mg/kg	
Zinc	48.9	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 08/06/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/24/24 12:55				
pH @ 25°C, 1:2	8.24		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-05 (8-11)  
**Sample No:** 24-6393-009

**Date Collected:** 07/18/24  
**Time Collected:** 9:50  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**  
 Analysis Date: 08/01/24  
 TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A**  
 Analysis Date: 08/07/24 Preparation Date: 08/07/24

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	1.01	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: 08/08/24  
 Mercury < 0.0005 0.0005 mg/L

**SPLP Extraction Method: 1312**  
 Analysis Date: 08/01/24  
 SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A**  
 Analysis Date: 08/08/24 Preparation Date: 08/07/24

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	< 0.005	0.005	mg/L	
Iron	2.9	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-40-05 (8-11)  
**Sample No:** 24-6393-009

**Date Collected:** 07/18/24  
**Time Collected:** 9:50  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 08/08/24		Preparation Date: 08/07/24		
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	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 08/07/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	95.6	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.2	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	96.2	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	92.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	76	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	71.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	92	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	79	35 -	105
8270C	Phenol-d5 (surr)	%R:	77.5	50 -	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-43-03 (0-4)  
**Sample No:** 24-6106-009

**Date Collected:** 07/10/24  
**Time Collected:** 11:20  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/18/24				
Total Solids	81.96		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/18/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-43-03 (0-4)  
**Sample No:** 24-6106-009

**Date Collected:** 07/10/24  
**Time Collected:** 11:20  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/18/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/20/24				
Preparation Date: 07/16/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-43-03 (0-4)  
**Sample No:** 24-6106-009

**Date Collected:** 07/10/24  
**Time Collected:** 11:20  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/20/24		Preparation Date: 07/16/24		
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-43-03 (0-4)  
**Sample No:** 24-6106-009

**Date Collected:** 07/10/24  
**Time Collected:** 11:20  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/20/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/16/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/25/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 07/24/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	9.6	1.0	mg/kg	
Barium	120	0.5	mg/kg	
Beryllium	0.9	0.5	mg/kg	
Cadmium	0.5	0.5	mg/kg	
Calcium	4,060	50	mg/kg	
Chromium	21.5	0.5	mg/kg	
Cobalt	14.2	0.5	mg/kg	
Copper	28.5	0.5	mg/kg	
Iron	26,700	5.0	mg/kg	
Lead	16.5	0.5	mg/kg	
Magnesium	4,430	50	mg/kg	
Manganese	551	0.5	mg/kg	
Nickel	32.6	0.5	mg/kg	
Potassium	1,320	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	988	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	35.1	1.0	mg/kg	
Zinc	52.5	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/23/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/16/24 10:30				
pH @ 25°C, 1:2	8.42		Units	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-43-03 (0-4)  
**Sample No:** 24-6106-009

**Date Collected:** 07/10/24  
**Time Collected:** 11:20  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/18/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 07/25/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/23/24				
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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/24/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/18/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 07/26/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/23/24				
Arsenic	0.020	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	0.121	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.138	0.005	mg/L	
Iron	123	0.1	mg/L	
Lead	0.050	0.005	mg/L	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-43-03 (0-4)  
**Sample No:** 24-6106-009

**Date Collected:** 07/10/24  
**Time Collected:** 11:20  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/26/24		Preparation Date: 07/23/24		
Manganese	0.66	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	0.3	0.1	mg/L	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/23/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	101.2	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	102.8	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	108.3	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	61.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	66	45	112
8270C	2-Fluorophenol (Surr)	%R:	46	41	84
8270C	d14-Terphenyl (Surr)	%R:	95	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	67	35	105
8270C	Phenol-d5 (surr)	%R:	68.5	50	100



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-43-03 (4-8.5)  
**Sample No:** 24-6106-010

**Date Collected:** 07/10/24  
**Time Collected:** 11:23  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/18/24				
Total Solids	77.94		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/18/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-43-03 (4-8.5)  
**Sample No:** 24-6106-010

**Date Collected:** 07/10/24  
**Time Collected:** 11:23  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/18/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/20/24				
Preparation Date: 07/16/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-43-03 (4-8.5)  
**Sample No:** 24-6106-010

**Date Collected:** 07/10/24  
**Time Collected:** 11:23  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/20/24		Preparation Date: 07/16/24		
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-43-03 (4-8.5)  
**Sample No:** 24-6106-010

**Date Collected:** 07/10/24  
**Time Collected:** 11:23  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/20/24		Preparation Method 3540C		
		Preparation Date: 07/16/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/25/24		Preparation Method 3050B		
		Preparation Date: 07/24/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	9.7	1.0	mg/kg	
Barium	60.0	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	0.6	0.5	mg/kg	
Calcium	48,300	50	mg/kg	
Chromium	20.2	0.5	mg/kg	
Cobalt	15.0	0.5	mg/kg	
Copper	25.6	0.5	mg/kg	
Iron	25,600	5.0	mg/kg	
Lead	12.9	0.5	mg/kg	
Magnesium	22,500	50	mg/kg	
Manganese	356	0.5	mg/kg	
Nickel	37.9	0.5	mg/kg	
Potassium	2,230	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	449	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	25.3	1.0	mg/kg	
Zinc	49.8	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/23/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/16/24 10:30				
pH @ 25°C, 1:2	8.31		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-43-03 (4-8.5)  
**Sample No:** 24-6106-010

**Date Collected:** 07/10/24  
**Time Collected:** 11:23  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**

Analysis Date: 07/18/24

TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A**

Analysis Date: 07/25/24

Preparation Date: 07/23/24

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	2.40	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: 07/24/24

Mercury < 0.0005 0.0005 mg/L

**SPLP Extraction Method: 1312**

Analysis Date: 07/18/24

SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A**

Analysis Date: 07/26/24

Preparation Date: 07/23/24

Arsenic	0.013	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	0.046	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.043	0.005	mg/L	
Iron	47.0	0.1	mg/L	
Lead	0.021	0.005	mg/L	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-43-03 (4-8.5)  
**Sample No:** 24-6106-010

**Date Collected:** 07/10/24  
**Time Collected:** 11:23  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/26/24		Preparation Date: 07/23/24		
Manganese	0.38	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	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/23/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	101.6	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	103.6	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	108.6	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	66.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	60	45	112
8270C	2-Fluorophenol (Surr)	%R:	73	41	84
8270C	d14-Terphenyl (Surr)	%R:	98	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	69	35	105
8270C	Phenol-d5 (surr)	%R:	89.5	50	100



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-43-04 (0-4)  
**Sample No:** 24-6106-011

**Date Collected:** 07/10/24  
**Time Collected:** 11:27  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/18/24				
Total Solids	75.05		%	

<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/18/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	





**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-43-04 (0-4)  
**Sample No:** 24-6106-011

**Date Collected:** 07/10/24  
**Time Collected:** 11:27  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/18/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/20/24				
Preparation Date: 07/16/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-43-04 (0-4)  
**Sample No:** 24-6106-011

**Date Collected:** 07/10/24  
**Time Collected:** 11:27  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/20/24		Preparation Date: 07/16/24		
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-43-04 (0-4)  
**Sample No:** 24-6106-011

**Date Collected:** 07/10/24  
**Time Collected:** 11:27  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/20/24		Preparation Method 3540C		
		Preparation Date: 07/16/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/25/24		Preparation Method 3050B		
		Preparation Date: 07/24/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.8	1.0	mg/kg	
Barium	161	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	0.9	0.5	mg/kg	
Calcium	17,800	50	mg/kg	
Chromium	20.4	0.5	mg/kg	
Cobalt	7.5	0.5	mg/kg	
Copper	26.7	0.5	mg/kg	
Iron	20,100	5.0	mg/kg	
Lead	96.0	0.5	mg/kg	
Magnesium	10,500	50	mg/kg	
Manganese	340	0.5	mg/kg	
Nickel	21.6	0.5	mg/kg	
Potassium	1,770	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	719	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	29.7	1.0	mg/kg	
Zinc	83.7	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/23/24				
Mercury	0.10	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/16/24 10:30				
pH @ 25°C, 1:2	7.91		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-43-04 (0-4)  
**Sample No:** 24-6106-011

**Date Collected:** 07/10/24  
**Time Collected:** 11:27  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/18/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 07/25/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/23/24				
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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/24/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/18/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 07/26/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/23/24				
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	0.037	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.033	0.005	mg/L	
Iron	29.6	0.1	mg/L	
Lead	0.070	0.005	mg/L	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-43-04 (0-4)  
**Sample No:** 24-6106-011

**Date Collected:** 07/10/24  
**Time Collected:** 11:27  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 07/26/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 07/23/24		
Manganese	0.18	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	0.2	0.1	mg/L	

<b>SPLP Mercury Method 1312</b> Analysis Date: 07/23/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	102.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	104.1	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	107.9	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	55.5	*	59 - 131
8270C	2-Fluorobiphenyl (Surr)	%R:	55		45 - 112
8270C	2-Fluorophenol (Surr)	%R:	51		41 - 84
8270C	d14-Terphenyl (Surr)	%R:	83		56 - 120
8270C	d5-Nitrobenzene (Surr)	%R:	64		35 - 105
8270C	Phenol-d5 (surr)	%R:	70.5		50 - 100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-43-04 (4-8.5)  
**Sample No:** 24-6106-012

**Date Collected:** 07/10/24  
**Time Collected:** 11:30  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/18/24				
Total Solids	82.80		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/18/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-43-04 (4-8.5)  
**Sample No:** 24-6106-012

**Date Collected:** 07/10/24  
**Time Collected:** 11:30  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/18/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/20/24				
Preparation Date: 07/16/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-43-04 (4-8.5)  
**Sample No:** 24-6106-012

**Date Collected:** 07/10/24  
**Time Collected:** 11:30  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/20/24		Preparation Date: 07/16/24		
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	
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	





**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-43-04 (4-8.5)  
**Sample No:** 24-6106-012

**Date Collected:** 07/10/24  
**Time Collected:** 11:30  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/20/24				Preparation Date: 07/16/24
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		<b>Preparation Method 3050B</b>
Analysis Date: 07/25/24				Preparation Date: 07/24/24
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.3	1.0	mg/kg	
Barium	50.5	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	51,000	50	mg/kg	
Chromium	19.9	0.5	mg/kg	
Cobalt	10.5	0.5	mg/kg	
Copper	25.5	0.5	mg/kg	
Iron	23,400	5.0	mg/kg	
Lead	13.3	0.5	mg/kg	
Magnesium	22,900	50	mg/kg	
Manganese	324	0.5	mg/kg	
Nickel	29.6	0.5	mg/kg	
Potassium	2,070	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	576	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	25.2	1.0	mg/kg	
Zinc	48.5	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/23/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/16/24 10:30				
pH @ 25°C, 1:2	8.49		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-43-04 (4-8.5)  
**Sample No:** 24-6106-012

**Date Collected:** 07/10/24  
**Time Collected:** 11:30  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**

Analysis Date: 07/18/24

TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A**

Analysis Date: 07/25/24

Preparation Date: 07/23/24

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	0.2	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	4.01	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: 07/24/24

Mercury < 0.0005 0.0005 mg/L

**SPLP Extraction Method: 1312**

Analysis Date: 07/18/24

SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A**

Analysis Date: 07/26/24

Preparation Date: 07/23/24

Arsenic	0.013	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	0.048	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.049	0.005	mg/L	
Iron	47.2	0.1	mg/L	
Lead	0.021	0.005	mg/L	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-43-04 (4-8.5)  
**Sample No:** 24-6106-012

**Date Collected:** 07/10/24  
**Time Collected:** 11:30  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/26/24		Preparation Date: 07/23/24		
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	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/23/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.7	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	102.8	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	108.6	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	72.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	70	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	79	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	103	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	80	35 -	105
8270C	Phenol-d5 (surr)	%R:	95.5	50 -	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-44-03 (0-5)  
**Sample No:** 24-6140-005

**Date Collected:** 07/12/24  
**Time Collected:** 11:16  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/18/24				
Total Solids	79.45		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/19/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-44-03 (0-5)  
**Sample No:** 24-6140-005

**Date Collected:** 07/12/24  
**Time Collected:** 11:16  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/19/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/22/24				
Preparation Date: 07/17/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-44-03 (0-5)  
**Sample No:** 24-6140-005

**Date Collected:** 07/12/24  
**Time Collected:** 11:16  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/22/24		Preparation Date: 07/17/24		
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-44-03 (0-5)  
**Sample No:** 24-6140-005

**Date Collected:** 07/12/24  
**Time Collected:** 11:16  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/22/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/17/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/26/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 07/25/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.1	1.0	mg/kg	
Barium	113	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	5,410	50	mg/kg	
Chromium	19.5	0.5	mg/kg	
Cobalt	10.3	0.5	mg/kg	
Copper	19.1	0.5	mg/kg	
Iron	20,700	5.0	mg/kg	
Lead	14.1	0.5	mg/kg	
Magnesium	4,320	50	mg/kg	
Manganese	310	0.5	mg/kg	
Nickel	23.3	0.5	mg/kg	
Potassium	1,720	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	140	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	28.9	1.0	mg/kg	
Zinc	50.5	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/25/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/17/24 11:30				
pH @ 25°C, 1:2	7.90		Units	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-44-03 (0-5)  
**Sample No:** 24-6140-005

**Date Collected:** 07/12/24  
**Time Collected:** 11:16  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/22/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 07/30/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/29/24				
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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/26/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/22/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 07/31/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/29/24				
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	0.031	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.019	0.005	mg/L	
Iron	24.7	0.1	mg/L	
Lead	0.014	0.005	mg/L	





**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-44-03 (0-5)  
**Sample No:** 24-6140-005

**Date Collected:** 07/12/24  
**Time Collected:** 11:16  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 07/31/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 07/29/24		
Manganese	0.11	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	

<b>SPLP Mercury Method 1312</b> Analysis Date: 07/25/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.8	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.3	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	99.9	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	70	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	83	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	63	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	84	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	80	35 -	105
8270C	Phenol-d5 (surr)	%R:	80.5	50 -	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-44-03 (5-10)  
**Sample No:** 24-6140-006

**Date Collected:** 07/12/24  
**Time Collected:** 11:18  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/18/24				
Total Solids	83.78		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/19/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-44-03 (5-10)  
**Sample No:** 24-6140-006

**Date Collected:** 07/12/24  
**Time Collected:** 11:18  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/19/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/22/24				
Preparation Date: 07/17/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-44-03 (5-10)  
**Sample No:** 24-6140-006

**Date Collected:** 07/12/24  
**Time Collected:** 11:18  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/22/24		Preparation Date: 07/17/24		
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-44-03 (5-10)  
**Sample No:** 24-6140-006

**Date Collected:** 07/12/24  
**Time Collected:** 11:18  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>				
<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>		
Analysis Date: 07/22/24		Preparation Date: 07/17/24		
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	
<b>Total Metals</b>				
<b>Method: 6010C</b>		<b>Preparation Method 3050B</b>		
Analysis Date: 07/26/24		Preparation Date: 07/25/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	12.3	1.0	mg/kg	
Barium	58.5	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	0.6	0.5	mg/kg	
Calcium	52,900	50	mg/kg	
Chromium	19.1	0.5	mg/kg	
Cobalt	53.0	0.5	mg/kg	
Copper	25.9	0.5	mg/kg	
Iron	24,300	5.0	mg/kg	
Lead	12.7	0.5	mg/kg	
Magnesium	24,000	50	mg/kg	
Manganese	684	0.5	mg/kg	
Nickel	44.1	0.5	mg/kg	
Potassium	2,340	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	239	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	24.9	1.0	mg/kg	
Zinc	50.5	1.0	mg/kg	
<b>Total Mercury</b>				
<b>Method: 7471B</b>				
Analysis Date: 07/25/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>				
<b>Method: 9045D</b>				
Analysis Date: 07/17/24 11:30				
pH @ 25°C, 1:2	8.26		Units	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-44-03 (5-10)  
**Sample No:** 24-6140-006

**Date Collected:** 07/12/24  
**Time Collected:** 11:18  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/22/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 07/30/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/29/24				
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	0.69	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/26/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/22/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 07/31/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/29/24				
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	0.016	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.023	0.005	mg/L	
Iron	17.8	0.1	mg/L	
Lead	0.010	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-44-03 (5-10)  
**Sample No:** 24-6140-006

**Date Collected:** 07/12/24  
**Time Collected:** 11:18  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/31/24		Preparation Date: 07/29/24		
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	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/25/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.9	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.6	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	99.5	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	67.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	80	45	112
8270C	2-Fluorophenol (Surr)	%R:	67	41	84
8270C	d14-Terphenyl (Surr)	%R:	78	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	78	35	105
8270C	Phenol-d5 (surr)	%R:	81	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-44-04 (0-5)  
**Sample No:** 24-6140-007

**Date Collected:** 07/12/24  
**Time Collected:** 12:22  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/18/24				
Total Solids	81.59		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/19/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-44-04 (0-5)  
**Sample No:** 24-6140-007

**Date Collected:** 07/12/24  
**Time Collected:** 12:22  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/19/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/22/24				
Preparation Date: 07/17/24				
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	146	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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-44-04 (0-5)  
**Sample No:** 24-6140-007

**Date Collected:** 07/12/24  
**Time Collected:** 12:22  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/22/24		Preparation Date: 07/17/24		
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-44-04 (0-5)  
**Sample No:** 24-6140-007

**Date Collected:** 07/12/24  
**Time Collected:** 12:22  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/22/24		Preparation Method <b>3540C</b>		
		Preparation Date: 07/17/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/26/24		Preparation Method <b>3050B</b>		
		Preparation Date: 07/25/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.7	1.0	mg/kg	
Barium	70.4	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	0.9	0.5	mg/kg	
Calcium	43,000	50	mg/kg	
Chromium	17.7	0.5	mg/kg	
Cobalt	13.4	0.5	mg/kg	
Copper	29.7	0.5	mg/kg	
Iron	20,900	5.0	mg/kg	
Lead	26.0	0.5	mg/kg	
Magnesium	20,500	50	mg/kg	
Manganese	491	0.5	mg/kg	
Nickel	35.9	0.5	mg/kg	
Potassium	2,060	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	1,540	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	22.2	1.0	mg/kg	
Zinc	51.6	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/25/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/17/24 11:30				
pH @ 25°C, 1:2	8.93		Units	



### Analytical Report

<b>Client:</b>	HUFF & HUFF INC.	<b>Date Collected:</b>	07/12/24
<b>Project ID:</b>	IDOT WO39A 81.0220714.72	<b>Time Collected:</b>	12:22
<b>Sample ID:</b>	1560V3-44-04 (0-5)	<b>Date Received:</b>	07/12/24
<b>Sample No:</b>	24-6140-007	<b>Date Reported:</b>	07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**

Analysis Date: 07/23/24

TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A**

Analysis Date: 07/30/24

Preparation Date: 07/29/24

Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	0.007	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	0.088	0.005	mg/L	
Manganese	3.95	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: 07/26/24

Mercury < 0.0005 0.0005 mg/L

**SPLP Extraction Method: 1312**

Analysis Date: 07/23/24

SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A**

Analysis Date: 07/31/24

Preparation Date: 07/29/24

Arsenic	0.032	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	0.078	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.092	0.005	mg/L	
Iron	85.4	0.1	mg/L	
Lead	0.261	0.005	mg/L	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-44-04 (0-5)  
**Sample No:** 24-6140-007

**Date Collected:** 07/12/24  
**Time Collected:** 12:22  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/31/24		Preparation Date: 07/29/24		
Manganese	0.48	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	0.3	0.1	mg/L	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/25/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.3	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	99	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	63.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	76	45	112
8270C	2-Fluorophenol (Surr)	%R:	60.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	74	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	71	35	105
8270C	Phenol-d5 (surr)	%R:	73.5	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-44-04 (5-10)  
**Sample No:** 24-6140-008

**Date Collected:** 07/12/24  
**Time Collected:** 12:24  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/18/24				
Total Solids	80.83		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/19/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-44-04 (5-10)  
**Sample No:** 24-6140-008

**Date Collected:** 07/12/24  
**Time Collected:** 12:24  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/19/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>	
Analysis Date: 07/21/24				
Preparation Date: 07/17/24				
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-44-04 (5-10)  
**Sample No:** 24-6140-008

**Date Collected:** 07/12/24  
**Time Collected:** 12:24  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/21/24		Preparation Date: 07/17/24		
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	
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	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-44-04 (5-10)  
**Sample No:** 24-6140-008

**Date Collected:** 07/12/24  
**Time Collected:** 12:24  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/21/24		Preparation Method 3540C		
		Preparation Date: 07/17/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/26/24		Preparation Method 3050B		
		Preparation Date: 07/25/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	12.0	1.0	mg/kg	
Barium	37.5	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	37,800	50	mg/kg	
Chromium	12.7	0.5	mg/kg	
Cobalt	8.3	0.5	mg/kg	
Copper	33.5	0.5	mg/kg	
Iron	21,000	5.0	mg/kg	
Lead	15.6	0.5	mg/kg	
Magnesium	21,400	50	mg/kg	
Manganese	256	0.5	mg/kg	
Nickel	26.9	0.5	mg/kg	
Potassium	1,440	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,240	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	19.2	1.0	mg/kg	
Zinc	39.7	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/25/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/17/24 11:30				
pH @ 25°C, 1:2	8.33		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-44-04 (5-10)  
**Sample No:** 24-6140-008

**Date Collected:** 07/12/24  
**Time Collected:** 12:24  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/23/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 07/30/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/29/24				
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	1.76	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/26/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/23/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 07/31/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/29/24				
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	0.010	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.013	0.005	mg/L	
Iron	10.2	0.1	mg/L	
Lead	0.006	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-44-04 (5-10)  
**Sample No:** 24-6140-008

**Date Collected:** 07/12/24  
**Time Collected:** 12:24  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/31/24		Preparation Date: 07/29/24		
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	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/25/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.2	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.1	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	100.8	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	74.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	82	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	73	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	100	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	80	35 -	105
8270C	Phenol-d5 (surr)	%R:	89	50 -	100



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-46-01 (0-3)  
**Sample No:** 24-6140-011

**Date Collected:** 07/12/24  
**Time Collected:** 12:40  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/18/24				
Total Solids	81.85		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/19/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-46-01 (0-3)  
**Sample No:** 24-6140-011

**Date Collected:** 07/12/24  
**Time Collected:** 12:40  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/19/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/21/24				
Preparation Date: 07/17/24				
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	267	90	ug/kg	
Benzo(b)fluoranthene	402	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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-46-01 (0-3)  
**Sample No:** 24-6140-011

**Date Collected:** 07/12/24  
**Time Collected:** 12:40  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/21/24		Preparation Date: 07/17/24		
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	507	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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-46-01 (0-3)  
**Sample No:** 24-6140-011

**Date Collected:** 07/12/24  
**Time Collected:** 12:40  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/21/24		Preparation Method <b>3540C</b>		
		Preparation Date: 07/17/24		
Pyrene	483	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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/26/24		Preparation Method <b>3050B</b>		
		Preparation Date: 07/25/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.6	1.0	mg/kg	
Barium	91.5	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	1.5	0.5	mg/kg	
Calcium	28,300	50	mg/kg	
Chromium	34.1	0.5	mg/kg	
Cobalt	6.3	0.5	mg/kg	
Copper	50.6	0.5	mg/kg	
Iron	15,700	5.0	mg/kg	
Lead	246	0.5	mg/kg	
Magnesium	16,600	50	mg/kg	
Manganese	405	0.5	mg/kg	
Nickel	17.8	0.5	mg/kg	
Potassium	1,010	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,150	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	22.0	1.0	mg/kg	
Zinc	173	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/25/24				
Mercury	0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/17/24 11:30				
pH @ 25°C, 1:2	7.87		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-46-01 (0-3)  
**Sample No:** 24-6140-011

**Date Collected:** 07/12/24  
**Time Collected:** 12:40  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/23/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 07/30/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/29/24				
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	0.4	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.84	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/26/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/23/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 07/31/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/29/24				
Arsenic	0.012	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	0.070	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.082	0.005	mg/L	
Iron	59.0	0.1	mg/L	
Lead	0.289	0.005	mg/L	





**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-46-01 (0-3)  
**Sample No:** 24-6140-011

**Date Collected:** 07/12/24  
**Time Collected:** 12:40  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 07/31/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 07/29/24		
Manganese	0.54	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	0.4	0.1	mg/L	

<b>SPLP Mercury Method 1312</b> Analysis Date: 07/26/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.7	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.8	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	100.7	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	71	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	85	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	63	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	102	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	76	35 -	105
8270C	Phenol-d5 (surr)	%R:	85	50 -	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-46-01 (3-6)  
**Sample No:** 24-6140-012

**Date Collected:** 07/12/24  
**Time Collected:** 12:42  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/18/24				
Total Solids	83.47		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/19/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-46-01 (3-6)  
**Sample No:** 24-6140-012

**Date Collected:** 07/12/24  
**Time Collected:** 12:42  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/19/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/23/24				
Preparation Date: 07/18/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-46-01 (3-6)  
**Sample No:** 24-6140-012

**Date Collected:** 07/12/24  
**Time Collected:** 12:42  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/23/24		Preparation Date: 07/18/24		
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-46-01 (3-6)  
**Sample No:** 24-6140-012

**Date Collected:** 07/12/24  
**Time Collected:** 12:42  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/23/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/18/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/26/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 07/25/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.2	1.0	mg/kg	
Barium	35.7	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	0.6	0.5	mg/kg	
Calcium	42,900	50	mg/kg	
Chromium	17.2	0.5	mg/kg	
Cobalt	10.9	0.5	mg/kg	
Copper	26.2	0.5	mg/kg	
Iron	20,300	5.0	mg/kg	
Lead	11.7	0.5	mg/kg	
Magnesium	20,400	50	mg/kg	
Manganese	372	0.5	mg/kg	
Nickel	29.6	0.5	mg/kg	
Potassium	1,970	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	891	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	21.9	1.0	mg/kg	
Zinc	45.9	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/25/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/17/24 11:30				
pH @ 25°C, 1:2	8.60		Units	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-46-01 (3-6)  
**Sample No:** 24-6140-012

**Date Collected:** 07/12/24  
**Time Collected:** 12:42  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/23/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 07/30/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/29/24				
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	5.39	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/26/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/23/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 07/31/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/29/24				
Arsenic	0.020	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	0.057	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.063	0.005	mg/L	
Iron	60.8	0.1	mg/L	
Lead	0.032	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-46-01 (3-6)  
**Sample No:** 24-6140-012

**Date Collected:** 07/12/24  
**Time Collected:** 12:42  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/31/24				Preparation Date: 07/29/24
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	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/26/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 99.1		86	117
5035A/8260B	d8-Toluene (Surr)	%R: 100.6		90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 100.4		77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 95.5		59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 73		45	112
8270C	2-Fluorophenol (Surr)	%R: 76.5		41	84
8270C	d14-Terphenyl (Surr)	%R: 88		56	120
8270C	d5-Nitrobenzene (Surr)	%R: 82		35	105
8270C	Phenol-d5 (surr)	%R: 80		50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-47-01 (0-5)  
**Sample No:** 24-6328-033

**Date Collected:** 07/17/24  
**Time Collected:** 13:18  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/22/24				
Total Solids	83.49		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/23/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-47-01 (0-5)  
**Sample No:** 24-6328-033

**Date Collected:** 07/17/24  
**Time Collected:** 13:18  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/23/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 08/04/24				
Preparation Date: 07/28/24				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	502	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	1,470	330	ug/kg	
Benzo(a)pyrene	1,160	90	ug/kg	
Benzo(b)fluoranthene	1,680	330	ug/kg	
Benzo(k)fluoranthene	573	330	ug/kg	
Benzo(ghi)perylene	788	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	1,520	330	ug/kg	
Dibenzo(a,h)anthracene	208	90	ug/kg	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-47-01 (0-5)  
**Sample No:** 24-6328-033

**Date Collected:** 07/17/24  
**Time Collected:** 13:18  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/04/24		Preparation Date: 07/28/24		
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	4,040	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	886	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	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	2,240	330	ug/kg	
Phenol	< 330	330	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-47-01 (0-5)  
**Sample No:** 24-6328-033

**Date Collected:** 07/17/24  
**Time Collected:** 13:18  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 08/04/24		Preparation Method 3540C		
		Preparation Date: 07/28/24		
Pyrene	2,860	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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/06/24		Preparation Method 3050B		
		Preparation Date: 08/02/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.5	1.0	mg/kg	
Barium	81.5	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	26,100	50	mg/kg	
Chromium	21.6	0.5	mg/kg	
Cobalt	14.0	0.5	mg/kg	
Copper	31.6	0.5	mg/kg	
Iron	23,400	5.0	mg/kg	
Lead	33.5	0.5	mg/kg	
Magnesium	17,600	50	mg/kg	
Manganese	501	0.5	mg/kg	
Nickel	33.5	0.5	mg/kg	
Potassium	1,910	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	554	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	28.6	1.0	mg/kg	
Zinc	62.2	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 08/05/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/23/24 10:15				
pH @ 25°C, 1:2	8.49		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-47-01 (0-5)  
**Sample No:** 24-6328-033

**Date Collected:** 07/17/24  
**Time Collected:** 13:18  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**  
 Analysis Date: 07/31/24  
 TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C**  
 Analysis Date: 08/07/24  
**Preparation Method 3010A**  
 Preparation Date: 08/05/24

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	0.58	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: 08/06/24  
 Mercury < 0.0005 0.0005 mg/L

**SPLP Extraction Method: 1312**  
 Analysis Date: 07/31/24  
 SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C**  
 Analysis Date: 08/06/24  
**Preparation Method 3010A**  
 Preparation Date: 08/05/24

Arsenic	0.013	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	0.043	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.044	0.005	mg/L	
Iron	42.8	0.1	mg/L	
Lead	0.024	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-47-01 (0-5)  
**Sample No:** 24-6328-033

**Date Collected:** 07/17/24  
**Time Collected:** 13:18  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 08/06/24				Preparation Date: 08/05/24
Manganese	0.20	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	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 08/05/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	100.4	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.8	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	100.2	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	57.5	*	59 - 131
8270C	2-Fluorobiphenyl (Surr)	%R:	66		45 - 112
8270C	2-Fluorophenol (Surr)	%R:	26.5	*	41 - 84
8270C	d14-Terphenyl (Surr)	%R:	90		56 - 120
8270C	d5-Nitrobenzene (Surr)	%R:	77		35 - 105
8270C	Phenol-d5 (surr)	%R:	58		50 - 100



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-47-01 (5-10)  
**Sample No:** 24-6328-034

**Date Collected:** 07/17/24  
**Time Collected:** 13:20  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/22/24				
Total Solids	81.19		%	

<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/23/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-47-01 (5-10)  
**Sample No:** 24-6328-034

**Date Collected:** 07/17/24  
**Time Collected:** 13:20  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/23/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 08/04/24				
Preparation Date: 07/28/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-47-01 (5-10)  
**Sample No:** 24-6328-034

**Date Collected:** 07/17/24  
**Time Collected:** 13:20  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/04/24		Preparation Date: 07/28/24		
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	
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	





**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-47-01 (5-10)  
**Sample No:** 24-6328-034

**Date Collected:** 07/17/24  
**Time Collected:** 13:20  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 08/04/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/28/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/06/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 08/02/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.1	1.0	mg/kg	
Barium	64.4	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	50,700	50	mg/kg	
Chromium	19.2	0.5	mg/kg	
Cobalt	9.9	0.5	mg/kg	
Copper	23.2	0.5	mg/kg	
Iron	20,400	5.0	mg/kg	
Lead	10.5	0.5	mg/kg	
Magnesium	20,800	50	mg/kg	
Manganese	322	0.5	mg/kg	
Nickel	29.0	0.5	mg/kg	
Potassium	2,170	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	790	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	24.0	1.0	mg/kg	
Zinc	45.7	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 08/05/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/23/24 10:15				
pH @ 25°C, 1:2	8.72		Units	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-47-01 (5-10)  
**Sample No:** 24-6328-034

**Date Collected:** 07/17/24  
**Time Collected:** 13:20  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/31/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/07/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/05/24				
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	2.04	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 08/06/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/31/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/06/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/05/24				
Arsenic	0.013	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	0.064	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.055	0.005	mg/L	
Iron	58.4	0.1	mg/L	
Lead	0.025	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-47-01 (5-10)  
**Sample No:** 24-6328-034

**Date Collected:** 07/17/24  
**Time Collected:** 13:20  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/06/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/05/24		
Manganese	0.28	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	

<b>SPLP Mercury Method 1312</b> Analysis Date: 08/05/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.7	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.8	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	100.6	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	74.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	55	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	60.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	95	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	72	35 -	105
8270C	Phenol-d5 (surr)	%R:	82.5	50 -	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-47-03 (0-5)  
**Sample No:** 24-6328-029

**Date Collected:** 07/17/24  
**Time Collected:** 11:52  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/22/24				
Total Solids	86.90		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/23/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-47-03 (0-5)  
**Sample No:** 24-6328-029

**Date Collected:** 07/17/24  
**Time Collected:** 11:52  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/23/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 08/04/24				
Preparation Date: 07/28/24				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	926	330	ug/kg	
Benzo(a)pyrene	795	90	ug/kg	
Benzo(b)fluoranthene	1,120	330	ug/kg	
Benzo(k)fluoranthene	428	330	ug/kg	
Benzo(ghi)perylene	591	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	962	330	ug/kg	
Dibenzo(a,h)anthracene	152	90	ug/kg	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-47-03 (0-5)  
**Sample No:** 24-6328-029

**Date Collected:** 07/17/24  
**Time Collected:** 11:52  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/04/24		Preparation Date: 07/28/24		
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	2,210	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	623	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	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	1,220	330	ug/kg	
Phenol	< 330	330	ug/kg	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-47-03 (0-5)  
**Sample No:** 24-6328-029

**Date Collected:** 07/17/24  
**Time Collected:** 11:52  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 08/04/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/28/24		
Pyrene	1,610	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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/06/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 08/02/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.0	1.0	mg/kg	
Barium	60.7	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	1.0	0.5	mg/kg	
Calcium	82,800	50	mg/kg	
Chromium	23.2	0.5	mg/kg	
Cobalt	4.5	0.5	mg/kg	
Copper	36.8	0.5	mg/kg	
Iron	13,500	5.0	mg/kg	
Lead	251	0.5	mg/kg	
Magnesium	50,000	50	mg/kg	
Manganese	237	0.5	mg/kg	
Nickel	15.5	0.5	mg/kg	
Potassium	1,060	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	639	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	17.2	1.0	mg/kg	
Zinc	126	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 08/02/24				
Mercury	0.06	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/23/24 10:15				
pH @ 25°C, 1:2	8.82		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-47-03 (0-5)  
**Sample No:** 24-6328-029

**Date Collected:** 07/17/24  
**Time Collected:** 11:52  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**  
 Analysis Date: 07/31/24  
 TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C**  
 Analysis Date: 08/07/24  
**Preparation Method 3010A**  
 Preparation Date: 08/05/24

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	0.69	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: 08/02/24  
 Mercury < 0.0005 0.0005 mg/L

**SPLP Extraction Method: 1312**  
 Analysis Date: 07/31/24  
 SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C**  
 Analysis Date: 08/06/24  
**Preparation Method 3010A**  
 Preparation Date: 08/05/24

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	0.032	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.045	0.005	mg/L	
Iron	24.0	0.1	mg/L	
Lead	0.149	0.005	mg/L	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-47-03 (0-5)  
**Sample No:** 24-6328-029

**Date Collected:** 07/17/24  
**Time Collected:** 11:52  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 08/06/24				Preparation Date: 08/05/24
Manganese	0.13	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	0.2	0.1	mg/L	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 08/05/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	100.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	100	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	66	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	86	45	112
8270C	2-Fluorophenol (Surr)	%R:	46	41	84
8270C	d14-Terphenyl (Surr)	%R:	96	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	91	35	105
8270C	Phenol-d5 (surr)	%R:	79	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-47-03 (5-10)  
**Sample No:** 24-6328-030

**Date Collected:** 07/17/24  
**Time Collected:** 11:54  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/22/24				
Total Solids	85.49		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/23/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-47-03 (5-10)  
**Sample No:** 24-6328-030

**Date Collected:** 07/17/24  
**Time Collected:** 11:54  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/23/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>	
Analysis Date: 08/04/24				
Preparation Date: 07/28/24				
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-47-03 (5-10)  
**Sample No:** 24-6328-030

**Date Collected:** 07/17/24  
**Time Collected:** 11:54  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/04/24		Preparation Date: 07/28/24		
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-47-03 (5-10)  
**Sample No:** 24-6328-030

**Date Collected:** 07/17/24  
**Time Collected:** 11:54  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 08/04/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/28/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/06/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 08/02/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	10.9	1.0	mg/kg	
Barium	24.1	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	41,700	50	mg/kg	
Chromium	11.1	0.5	mg/kg	
Cobalt	14.4	0.5	mg/kg	
Copper	41.0	0.5	mg/kg	
Iron	19,700	5.0	mg/kg	
Lead	17.5	0.5	mg/kg	
Magnesium	26,000	50	mg/kg	
Manganese	388	0.5	mg/kg	
Nickel	31.9	0.5	mg/kg	
Potassium	1,190	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	462	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	15.9	1.0	mg/kg	
Zinc	43.4	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 08/02/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/23/24 10:15				
pH @ 25°C, 1:2	8.57		Units	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-47-03 (5-10)  
**Sample No:** 24-6328-030

**Date Collected:** 07/17/24  
**Time Collected:** 11:54  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/31/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/07/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/05/24				
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	1.13	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 08/02/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/31/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/06/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/05/24				
Arsenic	0.024	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	0.030	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.072	0.005	mg/L	
Iron	42.8	0.1	mg/L	
Lead	0.022	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-47-03 (5-10)  
**Sample No:** 24-6328-030

**Date Collected:** 07/17/24  
**Time Collected:** 11:54  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/06/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/05/24		
Manganese	0.20	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	

<b>SPLP Mercury Method 1312</b> Analysis Date: 08/05/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>			
Method	Analyte	QC Result	%R Limits Low High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 97.7	86 - 117
5035A/8260B	d8-Toluene (Surr)	%R: 100.6	90 - 110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 99.8	77 - 120
8270C	2,4,6-Tribromophenol (Surr)	%R: 70.5	59 - 131
8270C	2-Fluorobiphenyl (Surr)	%R: 80	45 - 112
8270C	2-Fluorophenol (Surr)	%R: 70.5	41 - 84
8270C	d14-Terphenyl (Surr)	%R: 87	56 - 120
8270C	d5-Nitrobenzene (Surr)	%R: 84	35 - 105
8270C	Phenol-d5 (surr)	%R: 90.5	50 - 100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-48-01 (0-5)  
**Sample No:** 24-6106-019

**Date Collected:** 07/10/24  
**Time Collected:** 10:07  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/18/24				
Total Solids	82.98		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/18/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-48-01 (0-5)  
**Sample No:** 24-6106-019

**Date Collected:** 07/10/24  
**Time Collected:** 10:07  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/18/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/20/24				
Preparation Date: 07/16/24				
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	149	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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-48-01 (0-5)  
**Sample No:** 24-6106-019

**Date Collected:** 07/10/24  
**Time Collected:** 10:07  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/20/24		Preparation Date: 07/16/24		
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	367	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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-48-01 (0-5)  
**Sample No:** 24-6106-019

**Date Collected:** 07/10/24  
**Time Collected:** 10:07  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/20/24		Preparation Method 3540C		
		Preparation Date: 07/16/24		
Pyrene	347	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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/25/24		Preparation Method 3050B		
		Preparation Date: 07/24/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.9	1.0	mg/kg	
Barium	51.5	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	42,400	50	mg/kg	
Chromium	17.4	0.5	mg/kg	
Cobalt	10.0	0.5	mg/kg	
Copper	24.6	0.5	mg/kg	
Iron	19,500	5.0	mg/kg	
Lead	15.8	0.5	mg/kg	
Magnesium	20,900	50	mg/kg	
Manganese	434	0.5	mg/kg	
Nickel	28.2	0.5	mg/kg	
Potassium	1,710	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	703	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	22.2	1.0	mg/kg	
Zinc	52.5	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/23/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/16/24 10:30				
pH @ 25°C, 1:2	7.68		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-48-01 (0-5)  
**Sample No:** 24-6106-019

**Date Collected:** 07/10/24  
**Time Collected:** 10:07  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/18/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 07/25/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/25/24				
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	5.41	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/24/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/18/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 07/26/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/23/24				
Arsenic	0.035	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	0.076	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.128	0.005	mg/L	
Iron	87.2	0.1	mg/L	
Lead	0.072	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-48-01 (0-5)  
**Sample No:** 24-6106-019

**Date Collected:** 07/10/24  
**Time Collected:** 10:07  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/26/24				Preparation Date: 07/23/24
Manganese	1.00	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	0.2	0.1	mg/L	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/23/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	101.6	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	102.6	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	110	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	61	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	69	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	64.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	84	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	61	35 -	105
8270C	Phenol-d5 (surr)	%R:	78	50 -	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-48-01 (5-9)  
**Sample No:** 24-6106-020

**Date Collected:** 07/10/24  
**Time Collected:** 10:11  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/18/24				
Total Solids	80.20		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/18/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-48-01 (5-9)  
**Sample No:** 24-6106-020

**Date Collected:** 07/10/24  
**Time Collected:** 10:11  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/18/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/19/24				
Preparation Date: 07/17/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-48-01 (5-9)  
**Sample No:** 24-6106-020

**Date Collected:** 07/10/24  
**Time Collected:** 10:11  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/19/24		Preparation Date: 07/17/24		
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	
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	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-48-01 (5-9)  
**Sample No:** 24-6106-020

**Date Collected:** 07/10/24  
**Time Collected:** 10:11  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/19/24		Preparation Method 3540C		
		Preparation Date: 07/17/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/25/24		Preparation Method 3050B		
		Preparation Date: 07/24/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.0	1.0	mg/kg	
Barium	60.9	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	0.6	0.5	mg/kg	
Calcium	30,900	50	mg/kg	
Chromium	24.0	0.5	mg/kg	
Cobalt	11.4	0.5	mg/kg	
Copper	26.4	0.5	mg/kg	
Iron	26,300	5.0	mg/kg	
Lead	11.9	0.5	mg/kg	
Magnesium	23,600	50	mg/kg	
Manganese	495	0.5	mg/kg	
Nickel	36.1	0.5	mg/kg	
Potassium	2,270	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	809	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	28.4	1.0	mg/kg	
Zinc	56.6	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/23/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/16/24 10:30				
pH @ 25°C, 1:2	7.99		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-48-01 (5-9)  
**Sample No:** 24-6106-020

**Date Collected:** 07/10/24  
**Time Collected:** 10:11  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**  
 Analysis Date: 07/18/24  
 TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A**  
 Analysis Date: 07/25/24 Preparation Date: 07/25/24

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	6.99	0.10	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	0.011	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: 07/24/24  
 Mercury < 0.0005 0.0005 mg/L

**SPLP Extraction Method: 1312**  
 Analysis Date: 07/18/24  
 SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A**  
 Analysis Date: 07/26/24 Preparation Date: 07/23/24

Arsenic	0.016	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	0.075	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.067	0.005	mg/L	
Iron	71.9	0.1	mg/L	
Lead	0.030	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-48-01 (5-9)  
**Sample No:** 24-6106-020

**Date Collected:** 07/10/24  
**Time Collected:** 10:11  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/26/24		Preparation Date: 07/23/24		
Manganese	0.87	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	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/23/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	101.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	103.4	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	107.8	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	70.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	75	45	112
8270C	2-Fluorophenol (Surr)	%R:	67	41	84
8270C	d14-Terphenyl (Surr)	%R:	98	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	76	35	105
8270C	Phenol-d5 (surr)	%R:	83	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-52-02 (0-5)  
**Sample No:** 24-6328-035

**Date Collected:** 07/17/24  
**Time Collected:** 13:30  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/22/24				
Total Solids	95.31		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/23/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-52-02 (0-5)  
**Sample No:** 24-6328-035

**Date Collected:** 07/17/24  
**Time Collected:** 13:30  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/23/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/04/24				
Preparation Date: 07/28/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-52-02 (0-5)  
**Sample No:** 24-6328-035

**Date Collected:** 07/17/24  
**Time Collected:** 13:30  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/04/24		Preparation Date: 07/28/24		
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-52-02 (0-5)  
**Sample No:** 24-6328-035

**Date Collected:** 07/17/24  
**Time Collected:** 13:30  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 08/04/24		Preparation Method <b>3540C</b>		
		Preparation Date: 07/28/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/06/24		Preparation Method <b>3050B</b>		
		Preparation Date: 08/02/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	1.2	1.0	mg/kg	
Barium	9.9	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	145,000	50	mg/kg	
Chromium	4.8	0.5	mg/kg	
Cobalt	1.7	0.5	mg/kg	
Copper	5.0	0.5	mg/kg	
Iron	3,580	5.0	mg/kg	
Lead	6.0	0.5	mg/kg	
Magnesium	84,200	50	mg/kg	
Manganese	132	0.5	mg/kg	
Nickel	5.9	0.5	mg/kg	
Potassium	788	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	257	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	5.8	1.0	mg/kg	
Zinc	27.6	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 08/05/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/23/24 10:15				
pH @ 25°C, 1:2	8.41		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-52-02 (0-5)  
**Sample No:** 24-6328-035

**Date Collected:** 07/17/24  
**Time Collected:** 13:30  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**

Analysis Date: 07/31/24

TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A**

Analysis Date: 08/07/24

Preparation Date: 08/05/24

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	1.00	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	0.7	0.1	mg/L	

**TCLP Mercury Method 1311 Method: 7470A**

Analysis Date: 08/06/24

Mercury < 0.0005 0.0005 mg/L

**SPLP Extraction Method: 1312**

Analysis Date: 07/31/24

SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A**

Analysis Date: 08/06/24

Preparation Date: 08/05/24

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	< 0.005	0.005	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-52-02 (0-5)  
**Sample No:** 24-6328-035

**Date Collected:** 07/17/24  
**Time Collected:** 13:30  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/06/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/05/24		
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	

<b>SPLP Mercury Method 1312</b> Analysis Date: 08/05/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	100.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	102.1	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	79	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	92	45	112
8270C	2-Fluorophenol (Surr)	%R:	70.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	94	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	91	35	105
8270C	Phenol-d5 (surr)	%R:	92	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-52-02 (5-10)  
**Sample No:** 24-6328-036

**Date Collected:** 07/17/24  
**Time Collected:** 13:32  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/22/24				
Total Solids	82.35		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/23/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-52-02 (5-10)  
**Sample No:** 24-6328-036

**Date Collected:** 07/17/24  
**Time Collected:** 13:32  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/23/24				
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	

<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>	
Analysis Date: 08/04/24		Preparation Date: 07/28/24			
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		
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		



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-52-02 (5-10)  
**Sample No:** 24-6328-036

**Date Collected:** 07/17/24  
**Time Collected:** 13:32  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/04/24		Preparation Date: 07/28/24		
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-52-02 (5-10)  
**Sample No:** 24-6328-036

**Date Collected:** 07/17/24  
**Time Collected:** 13:32  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 08/04/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/28/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/06/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 08/02/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.7	1.0	mg/kg	
Barium	35.9	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	50,100	50	mg/kg	
Chromium	17.9	0.5	mg/kg	
Cobalt	7.0	0.5	mg/kg	
Copper	28.4	0.5	mg/kg	
Iron	19,900	5.0	mg/kg	
Lead	13.5	0.5	mg/kg	
Magnesium	23,300	50	mg/kg	
Manganese	222	0.5	mg/kg	
Nickel	25.2	0.5	mg/kg	
Potassium	2,300	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	204	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	24.4	1.0	mg/kg	
Zinc	47.3	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 08/05/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/23/24 10:15				
pH @ 25°C, 1:2	8.37		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-52-02 (5-10)  
**Sample No:** 24-6328-036

**Date Collected:** 07/17/24  
**Time Collected:** 13:32  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**

Analysis Date: 07/31/24

TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A**  
 Analysis Date: 08/07/24 Preparation Date: 08/05/24

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	2.28	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: 08/06/24

Mercury < 0.0005 0.0005 mg/L

**SPLP Extraction Method: 1312**

Analysis Date: 07/31/24

SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A**  
 Analysis Date: 08/06/24 Preparation Date: 08/05/24

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	0.033	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.036	0.005	mg/L	
Iron	29.7	0.1	mg/L	
Lead	0.013	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-52-02 (5-10)  
**Sample No:** 24-6328-036

**Date Collected:** 07/17/24  
**Time Collected:** 13:32  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/06/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/05/24		
Manganese	0.18	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	

<b>SPLP Mercury Method 1312</b> Analysis Date: 08/05/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.2	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.8	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	100.7	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	81	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	81	45	112
8270C	2-Fluorophenol (Surr)	%R:	68	41	84
8270C	d14-Terphenyl (Surr)	%R:	94	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	85	35	105
8270C	Phenol-d5 (surr)	%R:	92	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** DUP-20  
**Sample No:** 24-6328-047

**Date Collected:** 07/17/24  
**Time Collected:** 11:46  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/22/24				
Total Solids	81.87		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/25/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	





**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** DUP-20  
**Sample No:** 24-6328-047

**Date Collected:** 07/17/24  
**Time Collected:** 11:46  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/25/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>	
Analysis Date: 08/03/24				
Preparation Date: 07/28/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** DUP-20  
**Sample No:** 24-6328-047

**Date Collected:** 07/17/24  
**Time Collected:** 11:46  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/03/24		Preparation Date: 07/28/24		
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** DUP-20  
**Sample No:** 24-6328-047

**Date Collected:** 07/17/24  
**Time Collected:** 11:46  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 08/03/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/28/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/06/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 08/02/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.7	1.0	mg/kg	
Barium	40.7	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	58,700	50	mg/kg	
Chromium	20.5	0.5	mg/kg	
Cobalt	7.6	0.5	mg/kg	
Copper	27.2	0.5	mg/kg	
Iron	21,300	5.0	mg/kg	
Lead	11.6	0.5	mg/kg	
Magnesium	27,100	50	mg/kg	
Manganese	247	0.5	mg/kg	
Nickel	27.7	0.5	mg/kg	
Potassium	2,590	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	25.5	1.0	mg/kg	
Zinc	55.8	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 08/05/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/23/24 10:15				
pH @ 25°C, 1:2	8.36		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** DUP-20  
**Sample No:** 24-6328-047

**Date Collected:** 07/17/24  
**Time Collected:** 11:46  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/31/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/07/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/07/24				
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	0.76	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 08/06/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/31/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/08/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/07/24				
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	0.019	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.023	0.005	mg/L	
Iron	16.8	0.1	mg/L	
Lead	0.008	0.005	mg/L	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** DUP-20  
**Sample No:** 24-6328-047

**Date Collected:** 07/17/24  
**Time Collected:** 11:46  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/08/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/07/24		
Manganese	0.11	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	

<b>SPLP Mercury Method 1312</b> Analysis Date: 08/05/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.8	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.3	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	101.3	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	70	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	74	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	69	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	86	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	83	35 -	105
8270C	Phenol-d5 (surr)	%R:	85.5	50 -	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-53-01 (0-3)  
**Sample No:** 24-6251-008

**Date Collected:** 07/16/24  
**Time Collected:** 10:05  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/19/24				
Total Solids	82.45		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-53-01 (0-3)  
**Sample No:** 24-6251-008

**Date Collected:** 07/16/24  
**Time Collected:** 10:05  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	

<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>	
Analysis Date: 07/27/24				
Preparation Date: 07/22/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-53-01 (0-3)  
**Sample No:** 24-6251-008

**Date Collected:** 07/16/24  
**Time Collected:** 10:05  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/27/24		Preparation Date: 07/22/24		
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	
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	





**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-53-01 (0-3)  
**Sample No:** 24-6251-008

**Date Collected:** 07/16/24  
**Time Collected:** 10:05  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/27/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/22/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/01/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 08/01/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.7	1.0	mg/kg	
Barium	40.3	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	48,800	50	mg/kg	
Chromium	16.2	0.5	mg/kg	
Cobalt	13.0	0.5	mg/kg	
Copper	23.3	0.5	mg/kg	
Iron	21,200	5.0	mg/kg	
Lead	14.1	0.5	mg/kg	
Magnesium	24,100	50	mg/kg	
Manganese	507	0.5	mg/kg	
Nickel	33.8	0.5	mg/kg	
Potassium	2,010	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	286	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	20.9	1.0	mg/kg	
Zinc	46.1	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/29/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/19/24 10:50				
pH @ 25°C, 1:2	8.25		Units	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-53-01 (0-3)  
**Sample No:** 24-6251-008

**Date Collected:** 07/16/24  
**Time Collected:** 10:05  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/26/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/05/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/01/24				
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	0.65	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/31/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/26/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/02/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/01/24				
Arsenic	0.026	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	0.079	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.104	0.005	mg/L	
Iron	78.6	0.1	mg/L	
Lead	0.046	0.005	mg/L	



### Analytical Report

<b>Client:</b>	HUFF & HUFF INC.	<b>Date Collected:</b>	07/16/24
<b>Project ID:</b>	IDOT WO39A #81.0220714.72	<b>Time Collected:</b>	10:05
<b>Sample ID:</b>	1560V3-53-01 (0-3)	<b>Date Received:</b>	07/16/24
<b>Sample No:</b>	24-6251-008	<b>Date Reported:</b>	08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b>		
Analysis Date: 08/02/24		Preparation Date: 08/01/24		
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	0.2	0.1	mg/L	

<b>SPLP Mercury Method 1312</b>	<b>Method: 7470A</b>			
Analysis Date: 07/31/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	95.8	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.3	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	99.1	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	67	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	72	45	112
8270C	2-Fluorophenol (Surr)	%R:	69	41	84
8270C	d14-Terphenyl (Surr)	%R:	95	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	82	35	105
8270C	Phenol-d5 (surr)	%R:	85.5	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-53-01 (3-6)  
**Sample No:** 24-6251-009

**Date Collected:** 07/16/24  
**Time Collected:** 10:10  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/19/24				
Total Solids	81.80		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-53-01 (3-6)  
**Sample No:** 24-6251-009

**Date Collected:** 07/16/24  
**Time Collected:** 10:10  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/22/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/27/24				
Preparation Date: 07/22/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-53-01 (3-6)  
**Sample No:** 24-6251-009

**Date Collected:** 07/16/24  
**Time Collected:** 10:10  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/27/24		Preparation Date: 07/22/24		
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	
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	



### Analytical Report

<b>Client:</b>	HUFF & HUFF INC.	<b>Date Collected:</b>	07/16/24
<b>Project ID:</b>	IDOT WO39A #81.0220714.72	<b>Time Collected:</b>	10:10
<b>Sample ID:</b>	1560V3-53-01 (3-6)	<b>Date Received:</b>	07/16/24
<b>Sample No:</b>	24-6251-009	<b>Date Reported:</b>	08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>				
<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>		
Analysis Date: 07/27/24		Preparation Date: 07/22/24		
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	
<b>Total Metals</b>				
<b>Method: 6010C</b>		<b>Preparation Method 3050B</b>		
Analysis Date: 08/01/24		Preparation Date: 08/01/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.3	1.0	mg/kg	
Barium	53.4	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	47,800	50	mg/kg	
Chromium	17.2	0.5	mg/kg	
Cobalt	10.6	0.5	mg/kg	
Copper	22.4	0.5	mg/kg	
Iron	19,400	5.0	mg/kg	
Lead	11.3	0.5	mg/kg	
Magnesium	22,100	50	mg/kg	
Manganese	376	0.5	mg/kg	
Nickel	26.7	0.5	mg/kg	
Potassium	2,230	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	254	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	20.9	1.0	mg/kg	
Zinc	44.4	1.0	mg/kg	
<b>Total Mercury</b>				
<b>Method: 7471B</b>				
Analysis Date: 07/29/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>				
<b>Method: 9045D</b>				
Analysis Date: 07/19/24 10:50				
pH @ 25°C, 1:2	8.04		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-53-01 (3-6)  
**Sample No:** 24-6251-009

**Date Collected:** 07/16/24  
**Time Collected:** 10:10  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**  
 Analysis Date: 07/26/24  
 TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C**  
 Analysis Date: 08/05/24  
**Preparation Method 3010A**  
 Preparation Date: 08/01/24

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	0.61	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: 07/31/24  
 Mercury < 0.0005 0.0005 mg/L

**SPLP Extraction Method: 1312**  
 Analysis Date: 07/26/24  
 SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C**  
 Analysis Date: 08/02/24  
**Preparation Method 3010A**  
 Preparation Date: 08/01/24

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	0.019	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.017	0.005	mg/L	
Iron	16.8	0.1	mg/L	
Lead	0.006	0.005	mg/L	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-53-01 (3-6)  
**Sample No:** 24-6251-009

**Date Collected:** 07/16/24  
**Time Collected:** 10:10  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/02/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/01/24		
Manganese	0.11	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	

<b>SPLP Mercury Method 1312</b> Analysis Date: 07/31/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.6	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.8	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	99.6	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	63.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	70	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	66.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	95	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	79	35 -	105
8270C	Phenol-d5 (surr)	%R:	83	50 -	100



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-53-03 (0-3)  
**Sample No:** 24-6251-012

**Date Collected:** 07/16/24  
**Time Collected:** 10:30  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/19/24				
Total Solids	84.57		%	

<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-53-03 (0-3)  
**Sample No:** 24-6251-012

**Date Collected:** 07/16/24  
**Time Collected:** 10:30  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/31/24				
Preparation Date: 07/22/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-53-03 (0-3)  
**Sample No:** 24-6251-012

**Date Collected:** 07/16/24  
**Time Collected:** 10:30  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/31/24		Preparation Date: 07/22/24		
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-53-03 (0-3)  
**Sample No:** 24-6251-012

**Date Collected:** 07/16/24  
**Time Collected:** 10:30  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/31/24		Preparation Method <b>3540C</b>		
		Preparation Date: 07/22/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/02/24		Preparation Method <b>3050B</b>		
		Preparation Date: 08/01/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.7	1.0	mg/kg	
Barium	58.3	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	32,800	50	mg/kg	
Chromium	15.1	0.5	mg/kg	
Cobalt	8.6	0.5	mg/kg	
Copper	28.7	0.5	mg/kg	
Iron	19,300	5.0	mg/kg	
Lead	27.4	0.5	mg/kg	
Magnesium	20,400	50	mg/kg	
Manganese	282	0.5	mg/kg	
Nickel	26.0	0.5	mg/kg	
Potassium	1,410	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	633	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	20.2	1.0	mg/kg	
Zinc	53.9	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/29/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/19/24 10:50				
pH @ 25°C, 1:2	8.89		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-53-03 (0-3)  
**Sample No:** 24-6251-012

**Date Collected:** 07/16/24  
**Time Collected:** 10:30  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/26/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/05/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/01/24				
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	0.35	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/31/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/26/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/02/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/01/24				
Arsenic	0.057	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.006	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.193	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.253	0.005	mg/L	
Iron	190	0.1	mg/L	
Lead	0.326	0.005	mg/L	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-53-03 (0-3)  
**Sample No:** 24-6251-012

**Date Collected:** 07/16/24  
**Time Collected:** 10:30  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/02/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/01/24		
Manganese	1.03	0.10	mg/L	
Nickel	0.2	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.7	0.1	mg/L	

<b>SPLP Mercury Method 1312</b> Analysis Date: 08/01/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	101.2	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	102.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	99.9	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	66.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	78	45	112
8270C	2-Fluorophenol (Surr)	%R:	64.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	80	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	84	35	105
8270C	Phenol-d5 (surr)	%R:	81	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-53-03 (3-6)  
**Sample No:** 24-6251-013

**Date Collected:** 07/16/24  
**Time Collected:** 10:35  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/19/24				
Total Solids	83.06		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-53-03 (3-6)  
**Sample No:** 24-6251-013

**Date Collected:** 07/16/24  
**Time Collected:** 10:35  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/31/24				
Preparation Date: 07/22/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-53-03 (3-6)  
**Sample No:** 24-6251-013

**Date Collected:** 07/16/24  
**Time Collected:** 10:35  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/31/24		Preparation Date: 07/22/24		
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	
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	



### Analytical Report

<b>Client:</b>	HUFF & HUFF INC.	<b>Date Collected:</b>	07/16/24
<b>Project ID:</b>	IDOT WO39A #81.0220714.72	<b>Time Collected:</b>	10:35
<b>Sample ID:</b>	1560V3-53-03 (3-6)	<b>Date Received:</b>	07/16/24
<b>Sample No:</b>	24-6251-013	<b>Date Reported:</b>	08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/31/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/22/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/02/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 08/01/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	11.3	1.0	mg/kg	
Barium	54.2	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	41,200	50	mg/kg	
Chromium	19.5	0.5	mg/kg	
Cobalt	13.9	0.5	mg/kg	
Copper	26.6	0.5	mg/kg	
Iron	23,400	5.0	mg/kg	
Lead	29.9	0.5	mg/kg	
Magnesium	22,200	50	mg/kg	
Manganese	430	0.5	mg/kg	
Nickel	34.6	0.5	mg/kg	
Potassium	1,930	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	1,010	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	26.1	1.0	mg/kg	
Zinc	55.1	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/29/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/19/24 10:50				
pH @ 25°C, 1:2	8.94		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-53-03 (3-6)  
**Sample No:** 24-6251-013

**Date Collected:** 07/16/24  
**Time Collected:** 10:35  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**

Analysis Date: 07/26/24

TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A**  
 Analysis Date: 08/05/24 Preparation Date: 08/01/24

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	2.56	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: 07/31/24

Mercury < 0.0005 0.0005 mg/L

**SPLP Extraction Method: 1312**

Analysis Date: 07/26/24

SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A**  
 Analysis Date: 08/02/24 Preparation Date: 08/01/24

Arsenic	0.054	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.008	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.250	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.330	0.005	mg/L	
Iron	222	0.1	mg/L	
Lead	0.115	0.005	mg/L	



### Analytical Report

<b>Client:</b>	HUFF & HUFF INC.	<b>Date Collected:</b>	07/16/24
<b>Project ID:</b>	IDOT WO39A #81.0220714.72	<b>Time Collected:</b>	10:35
<b>Sample ID:</b>	1560V3-53-03 (3-6)	<b>Date Received:</b>	07/16/24
<b>Sample No:</b>	24-6251-013	<b>Date Reported:</b>	08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b>		
Analysis Date: 08/02/24		Preparation Date: 08/01/24		
Manganese	1.26	0.10	mg/L	
Nickel	0.3	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.6	0.1	mg/L	

<b>SPLP Mercury Method 1312</b>	<b>Method: 7470A</b>			
Analysis Date: 08/01/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	101.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	102.2	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	99.7	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	68	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	74	45	112
8270C	2-Fluorophenol (Surr)	%R:	67.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	83	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	86	35	105
8270C	Phenol-d5 (surr)	%R:	83.5	50	100



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-54-01 (0-3)  
**Sample No:** 24-6251-014

**Date Collected:** 07/16/24  
**Time Collected:** 10:37  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/19/24				
Total Solids	83.86		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-54-01 (0-3)  
**Sample No:** 24-6251-014

**Date Collected:** 07/16/24  
**Time Collected:** 10:37  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	

<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>	
Analysis Date: 07/31/24		Preparation Date: 07/22/24			
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		
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		



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-54-01 (0-3)  
**Sample No:** 24-6251-014

**Date Collected:** 07/16/24  
**Time Collected:** 10:37  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/31/24		Preparation Date: 07/22/24		
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	
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	





**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-54-01 (0-3)  
**Sample No:** 24-6251-014

**Date Collected:** 07/16/24  
**Time Collected:** 10:37  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/31/24		Preparation Method 3540C		
		Preparation Date: 07/22/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/02/24		Preparation Method 3050B		
		Preparation Date: 08/01/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.0	1.0	mg/kg	
Barium	33.8	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	31,300	50	mg/kg	
Chromium	14.5	0.5	mg/kg	
Cobalt	10.0	0.5	mg/kg	
Copper	37.3	0.5	mg/kg	
Iron	16,100	5.0	mg/kg	
Lead	51.7	0.5	mg/kg	
Magnesium	18,500	50	mg/kg	
Manganese	317	0.5	mg/kg	
Nickel	23.8	0.5	mg/kg	
Potassium	1,350	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	787	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	18.5	1.0	mg/kg	
Zinc	56.2	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/29/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/19/24 10:50				
pH @ 25°C, 1:2	8.61		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-54-01 (0-3)  
**Sample No:** 24-6251-014

**Date Collected:** 07/16/24  
**Time Collected:** 10:37  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**

Analysis Date: 07/26/24

TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A**

Analysis Date: 08/05/24

Preparation Date: 08/01/24

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	0.020	0.005	mg/L	
Manganese	4.69	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: 07/31/24

Mercury < 0.0005 0.0005 mg/L

**SPLP Extraction Method: 1312**

Analysis Date: 07/26/24

SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A**

Analysis Date: 08/02/24

Preparation Date: 08/01/24

Arsenic	0.089	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.007	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.204	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.280	0.005	mg/L	
Iron	225	0.1	mg/L	
Lead	0.321	0.005	mg/L	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-54-01 (0-3)  
**Sample No:** 24-6251-014

**Date Collected:** 07/16/24  
**Time Collected:** 10:37  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 08/02/24		Preparation Date: 08/01/24		
Manganese	1.55	0.10	mg/L	
Nickel	0.3	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.6	0.1	mg/L	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 08/01/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	101.6	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	103.1	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	101.8	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	66	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	81	45	112
8270C	2-Fluorophenol (Surr)	%R:	64.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	85	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	82	35	105
8270C	Phenol-d5 (surr)	%R:	80	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-54-01 (3-6)  
**Sample No:** 24-6251-015

**Date Collected:** 07/16/24  
**Time Collected:** 10:40  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/19/24				
Total Solids	86.48		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-54-01 (3-6)  
**Sample No:** 24-6251-015

**Date Collected:** 07/16/24  
**Time Collected:** 10:40  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/31/24				
Preparation Date: 07/22/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-54-01 (3-6)  
**Sample No:** 24-6251-015

**Date Collected:** 07/16/24  
**Time Collected:** 10:40  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/31/24		Preparation Date: 07/22/24		
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-54-01 (3-6)  
**Sample No:** 24-6251-015

**Date Collected:** 07/16/24  
**Time Collected:** 10:40  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/31/24		Preparation Method 3540C		
		Preparation Date: 07/22/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/02/24		Preparation Method 3050B		
		Preparation Date: 08/01/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	12.9	1.0	mg/kg	
Barium	48.2	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	23,700	50	mg/kg	
Chromium	13.9	0.5	mg/kg	
Cobalt	9.8	0.5	mg/kg	
Copper	30.8	0.5	mg/kg	
Iron	21,700	5.0	mg/kg	
Lead	29.2	0.5	mg/kg	
Magnesium	15,000	50	mg/kg	
Manganese	400	0.5	mg/kg	
Nickel	28.2	0.5	mg/kg	
Potassium	1,110	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	874	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	22.4	1.0	mg/kg	
Zinc	48.8	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/29/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/19/24 10:50				
pH @ 25°C, 1:2	8.04		Units	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-54-01 (3-6)  
**Sample No:** 24-6251-015

**Date Collected:** 07/16/24  
**Time Collected:** 10:40  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/26/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/05/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/01/24				
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	0.60	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/31/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/26/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/02/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/01/24				
Arsenic	0.014	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	0.039	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.051	0.005	mg/L	
Iron	42.1	0.1	mg/L	
Lead	0.035	0.005	mg/L	





**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-54-01 (3-6)  
**Sample No:** 24-6251-015

**Date Collected:** 07/16/24  
**Time Collected:** 10:40  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/02/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/01/24		
Manganese	0.26	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	

<b>SPLP Mercury Method 1312</b> Analysis Date: 08/01/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	102.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	103	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	102.3	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	65	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	71	45	112
8270C	2-Fluorophenol (Surr)	%R:	61	41	84
8270C	d14-Terphenyl (Surr)	%R:	82	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	76	35	105
8270C	Phenol-d5 (surr)	%R:	75	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** DUP-12  
**Sample No:** 24-6251-039

**Date Collected:** 07/16/24  
**Time Collected:** 10:42  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/19/24				
Total Solids	83.28		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** DUP-12  
**Sample No:** 24-6251-039

**Date Collected:** 07/16/24  
**Time Collected:** 10:42  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/26/24				
Preparation Date: 07/23/24				
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** DUP-12  
**Sample No:** 24-6251-039

**Date Collected:** 07/16/24  
**Time Collected:** 10:42  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/26/24		Preparation Date: 07/23/24		
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** DUP-12  
**Sample No:** 24-6251-039

**Date Collected:** 07/16/24  
**Time Collected:** 10:42  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/26/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/23/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/02/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 08/01/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.1	1.0	mg/kg	
Barium	30.2	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	45,900	50	mg/kg	
Chromium	11.7	0.5	mg/kg	
Cobalt	9.4	0.5	mg/kg	
Copper	29.1	0.5	mg/kg	
Iron	16,500	5.0	mg/kg	
Lead	30.2	0.5	mg/kg	
Magnesium	23,400	50	mg/kg	
Manganese	405	0.5	mg/kg	
Nickel	25.5	0.5	mg/kg	
Potassium	1,150	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	622	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	15.5	1.0	mg/kg	
Zinc	50.4	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/30/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/22/24 10:30				
pH @ 25°C, 1:2	8.67		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** DUP-12  
**Sample No:** 24-6251-039

**Date Collected:** 07/16/24  
**Time Collected:** 10:42  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/29/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/02/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/02/24				
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	3.37	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 08/01/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/29/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/05/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/01/24				
Arsenic	0.014	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	0.022	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.048	0.005	mg/L	
Iron	31.5	0.1	mg/L	
Lead	0.031	0.005	mg/L	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** DUP-12  
**Sample No:** 24-6251-039

**Date Collected:** 07/16/24  
**Time Collected:** 10:42  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/05/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/01/24		
Manganese	0.22	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	

<b>SPLP Mercury Method 1312</b> Analysis Date: 08/02/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	100.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	104.3	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	106.7	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	116.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	97	45	112
8270C	2-Fluorophenol (Surr)	%R:	76	41	84
8270C	d14-Terphenyl (Surr)	%R:	110	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	93	35	105
8270C	Phenol-d5 (surr)	%R:	81.5	50	100



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-55-01 (0-3)  
**Sample No:** 24-6251-016

**Date Collected:** 07/16/24  
**Time Collected:** 10:50  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/19/24				
Total Solids	86.53		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-55-01 (0-3)  
**Sample No:** 24-6251-016

**Date Collected:** 07/16/24  
**Time Collected:** 10:50  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/31/24				
Preparation Date: 07/22/24				
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-55-01 (0-3)  
**Sample No:** 24-6251-016

**Date Collected:** 07/16/24  
**Time Collected:** 10:50  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/31/24		Preparation Date: 07/22/24		
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	
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	



### Analytical Report

<b>Client:</b>	HUFF & HUFF INC.	<b>Date Collected:</b>	07/16/24
<b>Project ID:</b>	IDOT WO39A #81.0220714.72	<b>Time Collected:</b>	10:50
<b>Sample ID:</b>	1560V3-55-01 (0-3)	<b>Date Received:</b>	07/16/24
<b>Sample No:</b>	24-6251-016	<b>Date Reported:</b>	08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/31/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/22/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/02/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 08/01/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	9.8	1.0	mg/kg	
Barium	64.2	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	36,100	50	mg/kg	
Chromium	17.9	0.5	mg/kg	
Cobalt	11.8	0.5	mg/kg	
Copper	36.2	0.5	mg/kg	
Iron	22,200	5.0	mg/kg	
Lead	67.4	0.5	mg/kg	
Magnesium	23,600	50	mg/kg	
Manganese	398	0.5	mg/kg	
Nickel	33.1	0.5	mg/kg	
Potassium	1,680	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	769	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	22.9	1.0	mg/kg	
Zinc	77.2	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/29/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/19/24 10:50				
pH @ 25°C, 1:2	8.19		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-55-01 (0-3)  
**Sample No:** 24-6251-016

**Date Collected:** 07/16/24  
**Time Collected:** 10:50  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/26/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/05/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/01/24				
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	0.2	0.1	mg/L	
Lead	0.043	0.005	mg/L	
Manganese	3.57	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/31/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/26/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/02/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/01/24				
Arsenic	0.042	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	0.101	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.207	0.005	mg/L	
Iron	127	0.1	mg/L	
Lead	0.618	0.005	mg/L	



### Analytical Report

<b>Client:</b>	HUFF & HUFF INC.	<b>Date Collected:</b>	07/16/24
<b>Project ID:</b>	IDOT WO39A #81.0220714.72	<b>Time Collected:</b>	10:50
<b>Sample ID:</b>	1560V3-55-01 (0-3)	<b>Date Received:</b>	07/16/24
<b>Sample No:</b>	24-6251-016	<b>Date Reported:</b>	08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b>		
Analysis Date: 08/02/24		Preparation Date: 08/01/24		
Manganese	1.09	0.10	mg/L	
Nickel	0.2	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.5	0.1	mg/L	

<b>SPLP Mercury Method 1312</b>	<b>Method: 7470A</b>			
Analysis Date: 08/01/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	101.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.6	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	67.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	84	45	112
8270C	2-Fluorophenol (Surr)	%R:	70.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	86	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	74	35	105
8270C	Phenol-d5 (surr)	%R:	85.5	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-55-01 (3-6)  
**Sample No:** 24-6251-017

**Date Collected:** 07/16/24  
**Time Collected:** 10:55  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/19/24				
Total Solids	80.35		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-55-01 (3-6)  
**Sample No:** 24-6251-017

**Date Collected:** 07/16/24  
**Time Collected:** 10:55  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/22/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/31/24				
Preparation Date: 07/22/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-55-01 (3-6)  
**Sample No:** 24-6251-017

**Date Collected:** 07/16/24  
**Time Collected:** 10:55  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/31/24		Preparation Date: 07/22/24		
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	
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	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-55-01 (3-6)  
**Sample No:** 24-6251-017

**Date Collected:** 07/16/24  
**Time Collected:** 10:55  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/31/24		Preparation Method 3540C		
		Preparation Date: 07/22/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/02/24		Preparation Method 3050B		
		Preparation Date: 08/01/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.3	1.0	mg/kg	
Barium	83.7	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	1,740	50	mg/kg	
Chromium	16.6	0.5	mg/kg	
Cobalt	10.7	0.5	mg/kg	
Copper	25.4	0.5	mg/kg	
Iron	20,400	5.0	mg/kg	
Lead	13.9	0.5	mg/kg	
Magnesium	3,640	50	mg/kg	
Manganese	284	0.5	mg/kg	
Nickel	29.6	0.5	mg/kg	
Potassium	1,020	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,350	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	21.0	1.0	mg/kg	
Zinc	47.5	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/29/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/19/24 10:50				
pH @ 25°C, 1:2	7.59		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-55-01 (3-6)  
**Sample No:** 24-6251-017

**Date Collected:** 07/16/24  
**Time Collected:** 10:55  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/26/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/05/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/01/24				
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	0.2	0.1	mg/L	
Lead	0.011	0.005	mg/L	
Manganese	3.22	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/31/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/26/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/02/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/01/24				
Arsenic	0.066	0.010	mg/L	
Barium	1.4	1.0	mg/L	
Beryllium	0.008	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.248	0.005	mg/L	
Cobalt	0.1	0.1	mg/L	
Copper	0.342	0.005	mg/L	
Iron	251	0.1	mg/L	
Lead	0.140	0.005	mg/L	



### Analytical Report

<b>Client:</b>	HUFF & HUFF INC.	<b>Date Collected:</b>	07/16/24
<b>Project ID:</b>	IDOT WO39A #81.0220714.72	<b>Time Collected:</b>	10:55
<b>Sample ID:</b>	1560V3-55-01 (3-6)	<b>Date Received:</b>	07/16/24
<b>Sample No:</b>	24-6251-017	<b>Date Reported:</b>	08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b>		
Analysis Date: 08/02/24		Preparation Date: 08/01/24		
Manganese	2.77	0.10	mg/L	
Nickel	0.4	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.6	0.1	mg/L	

<b>SPLP Mercury Method 1312</b>	<b>Method: 7470A</b>			
Analysis Date: 08/01/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	103.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	102.5	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	70	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	70	45	112
8270C	2-Fluorophenol (Surr)	%R:	68	41	84
8270C	d14-Terphenyl (Surr)	%R:	87	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	71	35	105
8270C	Phenol-d5 (surr)	%R:	80.5	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-55-02 (0-3)  
**Sample No:** 24-6251-018

**Date Collected:** 07/16/24  
**Time Collected:** 10:58  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/19/24				
Total Solids	81.37		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-55-02 (0-3)  
**Sample No:** 24-6251-018

**Date Collected:** 07/16/24  
**Time Collected:** 10:58  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/31/24				
Preparation Date: 07/22/24				
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	111	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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-55-02 (0-3)  
**Sample No:** 24-6251-018

**Date Collected:** 07/16/24  
**Time Collected:** 10:58  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/31/24		Preparation Date: 07/22/24		
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	
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	



### Analytical Report

<b>Client:</b>	HUFF & HUFF INC.	<b>Date Collected:</b>	07/16/24
<b>Project ID:</b>	IDOT WO39A #81.0220714.72	<b>Time Collected:</b>	10:58
<b>Sample ID:</b>	1560V3-55-02 (0-3)	<b>Date Received:</b>	07/16/24
<b>Sample No:</b>	24-6251-018	<b>Date Reported:</b>	08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>				
<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>		
Analysis Date: 07/31/24		Preparation Date: 07/22/24		
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	
<b>Total Metals</b>				
<b>Method: 6010C</b>		<b>Preparation Method 3050B</b>		
Analysis Date: 08/02/24		Preparation Date: 08/01/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	9.5	1.0	mg/kg	
Barium	119	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	5,470	50	mg/kg	
Chromium	18.3	0.5	mg/kg	
Cobalt	12.0	0.5	mg/kg	
Copper	25.1	0.5	mg/kg	
Iron	23,000	5.0	mg/kg	
Lead	21.1	0.5	mg/kg	
Magnesium	5,320	50	mg/kg	
Manganese	205	0.5	mg/kg	
Nickel	29.2	0.5	mg/kg	
Potassium	919	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	1,750	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	33.5	1.0	mg/kg	
Zinc	50.5	1.0	mg/kg	
<b>Total Mercury</b>				
<b>Method: 7471B</b>				
Analysis Date: 07/29/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>				
<b>Method: 9045D</b>				
Analysis Date: 07/19/24 10:50				
pH @ 25°C, 1:2	8.62		Units	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-55-02 (0-3)  
**Sample No:** 24-6251-018

**Date Collected:** 07/16/24  
**Time Collected:** 10:58  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/26/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/05/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/01/24				
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	0.028	0.005	mg/L	
Manganese	9.00	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/31/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/26/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/02/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/01/24				
Arsenic	0.040	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.005	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.153	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.193	0.005	mg/L	
Iron	159	0.1	mg/L	
Lead	0.436	0.005	mg/L	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-55-02 (0-3)  
**Sample No:** 24-6251-018

**Date Collected:** 07/16/24  
**Time Collected:** 10:58  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/02/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/01/24		
Manganese	3.05	0.10	mg/L	
Nickel	0.2	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.5	0.1	mg/L	

<b>SPLP Mercury Method 1312</b> Analysis Date: 08/01/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	102.9	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	103	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103.2	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	70	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	84	45	112
8270C	2-Fluorophenol (Surr)	%R:	68	41	84
8270C	d14-Terphenyl (Surr)	%R:	88	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	78	35	105
8270C	Phenol-d5 (surr)	%R:	85	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-55-02 (3-6)  
**Sample No:** 24-6251-019

**Date Collected:** 07/16/24  
**Time Collected:** 11:00  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/19/24				
Total Solids	82.81		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-55-02 (3-6)  
**Sample No:** 24-6251-019

**Date Collected:** 07/16/24  
**Time Collected:** 11:00  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/22/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/31/24				
Preparation Date: 07/22/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-55-02 (3-6)  
**Sample No:** 24-6251-019

**Date Collected:** 07/16/24  
**Time Collected:** 11:00  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/31/24		Preparation Date: 07/22/24		
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	
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	



### Analytical Report

<b>Client:</b>	HUFF & HUFF INC.	<b>Date Collected:</b>	07/16/24
<b>Project ID:</b>	IDOT WO39A #81.0220714.72	<b>Time Collected:</b>	11:00
<b>Sample ID:</b>	1560V3-55-02 (3-6)	<b>Date Received:</b>	07/16/24
<b>Sample No:</b>	24-6251-019	<b>Date Reported:</b>	08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>				
<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>		
Analysis Date: 07/31/24		Preparation Date: 07/22/24		
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	
<b>Total Metals</b>				
<b>Method: 6010C</b>		<b>Preparation Method 3050B</b>		
Analysis Date: 08/02/24		Preparation Date: 08/01/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.6	1.0	mg/kg	
Barium	64.4	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	43,000	50	mg/kg	
Chromium	16.4	0.5	mg/kg	
Cobalt	8.3	0.5	mg/kg	
Copper	33.9	0.5	mg/kg	
Iron	19,900	5.0	mg/kg	
Lead	12.7	0.5	mg/kg	
Magnesium	22,800	50	mg/kg	
Manganese	295	0.5	mg/kg	
Nickel	30.0	0.5	mg/kg	
Potassium	1,560	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	1,020	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	21.8	1.0	mg/kg	
Zinc	47.1	1.0	mg/kg	
<b>Total Mercury</b>				
<b>Method: 7471B</b>				
Analysis Date: 07/29/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>				
<b>Method: 9045D</b>				
Analysis Date: 07/19/24 10:50				
pH @ 25°C, 1:2	8.33		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-55-02 (3-6)  
**Sample No:** 24-6251-019

**Date Collected:** 07/16/24  
**Time Collected:** 11:00  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/26/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/05/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/01/24				
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	1.32	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/31/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/26/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/02/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/01/24				
Arsenic	0.028	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	0.093	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.134	0.005	mg/L	
Iron	91.0	0.1	mg/L	
Lead	0.039	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-55-02 (3-6)  
**Sample No:** 24-6251-019

**Date Collected:** 07/16/24  
**Time Collected:** 11:00  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/02/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/01/24		
Manganese	0.67	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	0.2	0.1	mg/L	

<b>SPLP Mercury Method 1312</b> Analysis Date: 08/01/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	104.2	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.6	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103.7	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	75.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	77	45	112
8270C	2-Fluorophenol (Surr)	%R:	74	41	84
8270C	d14-Terphenyl (Surr)	%R:	91	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	87	35	105
8270C	Phenol-d5 (surr)	%R:	87	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-56-01 (0-3)  
**Sample No:** 24-6251-020

**Date Collected:** 07/16/24  
**Time Collected:** 11:05  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/19/24				
Total Solids	77.39		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-56-01 (0-3)  
**Sample No:** 24-6251-020

**Date Collected:** 07/16/24  
**Time Collected:** 11:05  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/22/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>	
Analysis Date: 07/22/24				
Preparation Date: 07/19/24				
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-56-01 (0-3)  
**Sample No:** 24-6251-020

**Date Collected:** 07/16/24  
**Time Collected:** 11:05  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/22/24		Preparation Date: 07/19/24		
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	
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	



### Analytical Report

<b>Client:</b>	HUFF & HUFF INC.	<b>Date Collected:</b>	07/16/24
<b>Project ID:</b>	IDOT WO39A #81.0220714.72	<b>Time Collected:</b>	11:05
<b>Sample ID:</b>	1560V3-56-01 (0-3)	<b>Date Received:</b>	07/16/24
<b>Sample No:</b>	24-6251-020	<b>Date Reported:</b>	08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/22/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/19/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/02/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 08/01/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.8	1.0	mg/kg	
Barium	104	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	2,510	50	mg/kg	
Chromium	17.0	0.5	mg/kg	
Cobalt	8.8	0.5	mg/kg	
Copper	20.0	0.5	mg/kg	
Iron	19,800	5.0	mg/kg	
Lead	14.3	0.5	mg/kg	
Magnesium	3,510	50	mg/kg	
Manganese	422	0.5	mg/kg	
Nickel	21.6	0.5	mg/kg	
Potassium	677	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	4,040	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	28.6	1.0	mg/kg	
Zinc	57.1	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/29/24				
Mercury	0.06	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/19/24 10:50				
pH @ 25°C, 1:2	7.18		Units	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-56-01 (0-3)  
**Sample No:** 24-6251-020

**Date Collected:** 07/16/24  
**Time Collected:** 11:05  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/26/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/05/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/01/24				
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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/31/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/26/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/02/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/01/24				
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	0.071	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.049	0.005	mg/L	
Iron	67.7	0.1	mg/L	
Lead	0.019	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-56-01 (0-3)  
**Sample No:** 24-6251-020

**Date Collected:** 07/16/24  
**Time Collected:** 11:05  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 08/02/24		Preparation Date: 08/01/24		
Manganese	0.40	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	0.2	0.1	mg/L	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 08/01/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	104.8	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	102.3	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	102.6	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	58	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	67	45	112
8270C	2-Fluorophenol (Surr)	%R:	59.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	86	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	78	35	105
8270C	Phenol-d5 (surr)	%R:	76.5	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-56-01 (3-6)  
**Sample No:** 24-6251-021

**Date Collected:** 07/16/24  
**Time Collected:** 11:10  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/19/24				
Total Solids	82.47		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-56-01 (3-6)  
**Sample No:** 24-6251-021

**Date Collected:** 07/16/24  
**Time Collected:** 11:10  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/22/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/31/24				
Preparation Date: 07/22/24				
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	114	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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-56-01 (3-6)  
**Sample No:** 24-6251-021

**Date Collected:** 07/16/24  
**Time Collected:** 11:10  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/31/24		Preparation Date: 07/22/24		
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	
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	





### Analytical Report

<b>Client:</b>	HUFF & HUFF INC.	<b>Date Collected:</b>	07/16/24
<b>Project ID:</b>	IDOT WO39A #81.0220714.72	<b>Time Collected:</b>	11:10
<b>Sample ID:</b>	1560V3-56-01 (3-6)	<b>Date Received:</b>	07/16/24
<b>Sample No:</b>	24-6251-021	<b>Date Reported:</b>	08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/31/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/22/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/02/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 08/01/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.9	1.0	mg/kg	
Barium	107	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	7,490	50	mg/kg	
Chromium	16.6	0.5	mg/kg	
Cobalt	7.5	0.5	mg/kg	
Copper	23.5	0.5	mg/kg	
Iron	19,400	5.0	mg/kg	
Lead	16.7	0.5	mg/kg	
Magnesium	6,450	50	mg/kg	
Manganese	323	0.5	mg/kg	
Nickel	22.8	0.5	mg/kg	
Potassium	916	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	2,950	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	25.8	1.0	mg/kg	
Zinc	51.6	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/30/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/19/24 10:50				
pH @ 25°C, 1:2	8.01		Units	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-56-01 (3-6)  
**Sample No:** 24-6251-021

**Date Collected:** 07/16/24  
**Time Collected:** 11:10  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/26/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/05/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/01/24				
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	0.039	0.005	mg/L	
Manganese	5.89	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 08/01/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/26/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/02/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/01/24				
Arsenic	0.050	0.010	mg/L	
Barium	1.2	1.0	mg/L	
Beryllium	0.007	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.203	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.246	0.005	mg/L	
Iron	205	0.1	mg/L	
Lead	0.352	0.005	mg/L	



### Analytical Report

<b>Client:</b>	HUFF & HUFF INC.	<b>Date Collected:</b>	07/16/24
<b>Project ID:</b>	IDOT WO39A #81.0220714.72	<b>Time Collected:</b>	11:10
<b>Sample ID:</b>	1560V3-56-01 (3-6)	<b>Date Received:</b>	07/16/24
<b>Sample No:</b>	24-6251-021	<b>Date Reported:</b>	08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/02/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/01/24		
Manganese	2.18	0.10	mg/L	
Nickel	0.2	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.6	0.1	mg/L	

<b>SPLP Mercury Method 1312</b> Analysis Date: 08/01/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	102.9	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	104	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103.2	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	70	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	79	45	112
8270C	2-Fluorophenol (Surr)	%R:	62.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	89	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	67	35	105
8270C	Phenol-d5 (surr)	%R:	80.5	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-56-02 (0-3)  
**Sample No:** 24-6251-022

**Date Collected:** 07/16/24  
**Time Collected:** 11:30  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/19/24				
Total Solids	81.09		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-56-02 (0-3)  
**Sample No:** 24-6251-022

**Date Collected:** 07/16/24  
**Time Collected:** 11:30  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/26/24				
Preparation Date: 07/22/24				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	557	330	ug/kg	
Benzo(a)pyrene	537	90	ug/kg	
Benzo(b)fluoranthene	761	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	375	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	686	330	ug/kg	
Dibenzo(a,h)anthracene	101	90	ug/kg	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-56-02 (0-3)  
**Sample No:** 24-6251-022

**Date Collected:** 07/16/24  
**Time Collected:** 11:30  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/26/24		Preparation Date: 07/22/24		
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	1,530	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	434	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	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	802	330	ug/kg	
Phenol	< 330	330	ug/kg	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-56-02 (0-3)  
**Sample No:** 24-6251-022

**Date Collected:** 07/16/24  
**Time Collected:** 11:30  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/26/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/22/24		
Pyrene	1,160	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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/02/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 08/01/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.6	1.0	mg/kg	
Barium	67.5	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	0.6	0.5	mg/kg	
Calcium	22,200	50	mg/kg	
Chromium	14.3	0.5	mg/kg	
Cobalt	5.8	0.5	mg/kg	
Copper	24.9	0.5	mg/kg	
Iron	13,200	5.0	mg/kg	
Lead	83.1	0.5	mg/kg	
Magnesium	14,800	50	mg/kg	
Manganese	93.5	0.5	mg/kg	
Nickel	17.3	0.5	mg/kg	
Potassium	1,380	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	4,400	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	21.1	1.0	mg/kg	
Zinc	63.9	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/30/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/22/24 10:30				
pH @ 25°C, 1:2	8.72		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-56-02 (0-3)  
**Sample No:** 24-6251-022

**Date Collected:** 07/16/24  
**Time Collected:** 11:30  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/26/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/05/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/01/24				
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	1.03	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 08/01/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/26/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/02/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/01/24				
Arsenic	0.057	0.010	mg/L	
Barium	1.2	1.0	mg/L	
Beryllium	0.009	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.233	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.280	0.005	mg/L	
Iron	204	0.1	mg/L	
Lead	0.897	0.005	mg/L	





### Analytical Report

<b>Client:</b>	HUFF & HUFF INC.	<b>Date Collected:</b>	07/16/24
<b>Project ID:</b>	IDOT WO39A #81.0220714.72	<b>Time Collected:</b>	11:30
<b>Sample ID:</b>	1560V3-56-02 (0-3)	<b>Date Received:</b>	07/16/24
<b>Sample No:</b>	24-6251-022	<b>Date Reported:</b>	08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b>		
Analysis Date: 08/02/24		Preparation Date: 08/01/24		
Manganese	1.22	0.10	mg/L	
Nickel	0.2	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.8	0.1	mg/L	

<b>SPLP Mercury Method 1312</b>	<b>Method: 7470A</b>			
Analysis Date: 08/01/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	104.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	103.1	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103.7	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	71	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	76	45	112
8270C	2-Fluorophenol (Surr)	%R:	70	41	84
8270C	d14-Terphenyl (Surr)	%R:	86	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	79	35	105
8270C	Phenol-d5 (surr)	%R:	82.5	50	100



## Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-56-02 (3-6)  
**Sample No:** 24-6251-023

**Date Collected:** 07/16/24  
**Time Collected:** 11:35  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/19/24				
Total Solids	79.97		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-56-02 (3-6)  
**Sample No:** 24-6251-023

**Date Collected:** 07/16/24  
**Time Collected:** 11:35  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/22/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/26/24				
Preparation Date: 07/22/24				
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	95	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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-56-02 (3-6)  
**Sample No:** 24-6251-023

**Date Collected:** 07/16/24  
**Time Collected:** 11:35  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/26/24		Preparation Date: 07/22/24		
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	
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	



### Analytical Report

<b>Client:</b>	HUFF & HUFF INC.	<b>Date Collected:</b>	07/16/24
<b>Project ID:</b>	IDOT WO39A #81.0220714.72	<b>Time Collected:</b>	11:35
<b>Sample ID:</b>	1560V3-56-02 (3-6)	<b>Date Received:</b>	07/16/24
<b>Sample No:</b>	24-6251-023	<b>Date Reported:</b>	08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>				
<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>		
Analysis Date: 07/26/24		Preparation Date: 07/22/24		
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	
<b>Total Metals</b>				
<b>Method: 6010C</b>		<b>Preparation Method 3050B</b>		
Analysis Date: 08/02/24		Preparation Date: 08/01/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.0	1.0	mg/kg	
Barium	135	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	30,000	50	mg/kg	
Chromium	18.5	0.5	mg/kg	
Cobalt	6.7	0.5	mg/kg	
Copper	22.9	0.5	mg/kg	
Iron	22,600	5.0	mg/kg	
Lead	53.5	0.5	mg/kg	
Magnesium	21,300	50	mg/kg	
Manganese	262	0.5	mg/kg	
Nickel	23.3	0.5	mg/kg	
Potassium	1,390	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	3,940	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	28.9	1.0	mg/kg	
Zinc	58.6	1.0	mg/kg	
<b>Total Mercury</b>				
<b>Method: 7471B</b>				
Analysis Date: 07/30/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>				
<b>Method: 9045D</b>				
Analysis Date: 07/22/24 10:30				
pH @ 25°C, 1:2	8.21		Units	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-56-02 (3-6)  
**Sample No:** 24-6251-023

**Date Collected:** 07/16/24  
**Time Collected:** 11:35  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/26/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/05/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/01/24				
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	1.0	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 08/01/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/26/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/02/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/01/24				
Arsenic	0.030	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	0.134	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.121	0.005	mg/L	
Iron	122	0.1	mg/L	
Lead	0.241	0.005	mg/L	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-56-02 (3-6)  
**Sample No:** 24-6251-023

**Date Collected:** 07/16/24  
**Time Collected:** 11:35  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/02/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/01/24		
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	0.4	0.1	mg/L	

<b>SPLP Mercury Method 1312</b> Analysis Date: 08/01/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	105.2	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	103.1	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103.5	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	65.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	75	45	112
8270C	2-Fluorophenol (Surr)	%R:	56	41	84
8270C	d14-Terphenyl (Surr)	%R:	84	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	73	35	105
8270C	Phenol-d5 (surr)	%R:	71.5	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-57-01 (0-5)  
**Sample No:** 24-6328-023

**Date Collected:** 07/17/24  
**Time Collected:** 11:23  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/22/24				
Total Solids	80.67		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/23/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-57-01 (0-5)  
**Sample No:** 24-6328-023

**Date Collected:** 07/17/24  
**Time Collected:** 11:23  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/23/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/27/24				
Preparation Date: 07/25/24				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	681	330	ug/kg	
Benzo(a)pyrene	645	90	ug/kg	
Benzo(b)fluoranthene	886	330	ug/kg	
Benzo(k)fluoranthene	333	330	ug/kg	
Benzo(ghi)perylene	476	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	737	330	ug/kg	
Dibenzo(a,h)anthracene	114	90	ug/kg	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-57-01 (0-5)  
**Sample No:** 24-6328-023

**Date Collected:** 07/17/24  
**Time Collected:** 11:23  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/27/24		Preparation Date: 07/25/24		
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	1,480	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	495	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	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	656	330	ug/kg	
Phenol	< 330	330	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-57-01 (0-5)  
**Sample No:** 24-6328-023

**Date Collected:** 07/17/24  
**Time Collected:** 11:23  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/27/24		Preparation Method <b>3540C</b>		
		Preparation Date: 07/25/24		
Pyrene	1,210	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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/05/24		Preparation Method <b>3050B</b>		
		Preparation Date: 08/01/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.1	1.0	mg/kg	
Barium	54.3	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	0.5	0.5	mg/kg	
Calcium	53,200	50	mg/kg	
Chromium	18.0	0.5	mg/kg	
Cobalt	9.7	0.5	mg/kg	
Copper	26.1	0.5	mg/kg	
Iron	20,200	5.0	mg/kg	
Lead	20.3	0.5	mg/kg	
Magnesium	25,500	50	mg/kg	
Manganese	307	0.5	mg/kg	
Nickel	25.7	0.5	mg/kg	
Potassium	2,220	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	454	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	22.0	1.0	mg/kg	
Zinc	56.4	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 08/02/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/22/24 10:30				
pH @ 25°C, 1:2	8.30		Units	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-57-01 (0-5)  
**Sample No:** 24-6328-023

**Date Collected:** 07/17/24  
**Time Collected:** 11:23  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/31/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/07/24				
<b>Preparation Method 3010A</b> Preparation Date: 08/05/24				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	0.008	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	0.026	0.005	mg/L	
Manganese	5.86	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 08/02/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/31/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/06/24				
<b>Preparation Method 3010A</b> Preparation Date: 08/05/24				
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	0.024	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.033	0.005	mg/L	
Iron	22.5	0.1	mg/L	
Lead	0.025	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-57-01 (0-5)  
**Sample No:** 24-6328-023

**Date Collected:** 07/17/24  
**Time Collected:** 11:23  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/06/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/05/24		
Manganese	0.15	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	

<b>SPLP Mercury Method 1312</b> Analysis Date: 08/05/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	100.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.3	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	99.8	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	65	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	78	45	112
8270C	2-Fluorophenol (Surr)	%R:	58	41	84
8270C	d14-Terphenyl (Surr)	%R:	87	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	79	35	105
8270C	Phenol-d5 (surr)	%R:	80	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-57-01 (5-10)  
**Sample No:** 24-6328-024

**Date Collected:** 07/17/24  
**Time Collected:** 11:25  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/22/24				
Total Solids	78.17		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/23/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-57-01 (5-10)  
**Sample No:** 24-6328-024

**Date Collected:** 07/17/24  
**Time Collected:** 11:25  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/23/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/27/24				
Preparation Date: 07/25/24				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	367	330	ug/kg	
Benzo(a)pyrene	363	90	ug/kg	
Benzo(b)fluoranthene	484	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	422	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-57-01 (5-10)  
**Sample No:** 24-6328-024

**Date Collected:** 07/17/24  
**Time Collected:** 11:25  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/27/24		Preparation Date: 07/25/24		
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	750	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	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	372	330	ug/kg	
Phenol	< 330	330	ug/kg	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-57-01 (5-10)  
**Sample No:** 24-6328-024

**Date Collected:** 07/17/24  
**Time Collected:** 11:25  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/27/24		Preparation Method <b>3540C</b>		
		Preparation Date: 07/25/24		
Pyrene	659	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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/05/24		Preparation Method <b>3050B</b>		
		Preparation Date: 08/01/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.6	1.0	mg/kg	
Barium	79.7	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	0.5	0.5	mg/kg	
Calcium	57,000	50	mg/kg	
Chromium	17.2	0.5	mg/kg	
Cobalt	9.9	0.5	mg/kg	
Copper	28.5	0.5	mg/kg	
Iron	18,800	5.0	mg/kg	
Lead	61.4	0.5	mg/kg	
Magnesium	33,300	50	mg/kg	
Manganese	364	0.5	mg/kg	
Nickel	25.5	0.5	mg/kg	
Potassium	1,800	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	603	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	23.4	1.0	mg/kg	
Zinc	66.4	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 08/02/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/23/24 10:15				
pH @ 25°C, 1:2	7.91		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-57-01 (5-10)  
**Sample No:** 24-6328-024

**Date Collected:** 07/17/24  
**Time Collected:** 11:25  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**  
 Analysis Date: 07/31/24  
 TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A**  
 Analysis Date: 08/07/24 Preparation Date: 08/05/24

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	1.18	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: 08/02/24  
 Mercury < 0.0005 0.0005 mg/L

**SPLP Extraction Method: 1312**  
 Analysis Date: 07/31/24  
 SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A**  
 Analysis Date: 08/06/24 Preparation Date: 08/05/24

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	0.014	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.016	0.005	mg/L	
Iron	14.6	0.1	mg/L	
Lead	0.020	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-57-01 (5-10)  
**Sample No:** 24-6328-024

**Date Collected:** 07/17/24  
**Time Collected:** 11:25  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 08/06/24		Preparation Date: 08/05/24		
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	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 08/05/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>Low</i>	<i>High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 98	86	117	
5035A/8260B	d8-Toluene (Surr)	%R: 101.8	90	110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 101.5	77	120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 73	59	131	
8270C	2-Fluorobiphenyl (Surr)	%R: 87	45	112	
8270C	2-Fluorophenol (Surr)	%R: 69.5	41	84	
8270C	d14-Terphenyl (Surr)	%R: 94	56	120	
8270C	d5-Nitrobenzene (Surr)	%R: 86	35	105	
8270C	Phenol-d5 (surr)	%R: 87.5	50	100	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-57-02 (0-5)  
**Sample No:** 24-6328-021

**Date Collected:** 07/17/24  
**Time Collected:** 11:16  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>	<b>Method: 2540G 2011</b>			
Analysis Date: 07/22/24				
Total Solids	80.57		%	

<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/23/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-57-02 (0-5)  
**Sample No:** 24-6328-021

**Date Collected:** 07/17/24  
**Time Collected:** 11:16  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/23/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/30/24				
Preparation Date: 07/28/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-57-02 (0-5)  
**Sample No:** 24-6328-021

**Date Collected:** 07/17/24  
**Time Collected:** 11:16  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/30/24		Preparation Date: 07/28/24		
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-57-02 (0-5)  
**Sample No:** 24-6328-021

**Date Collected:** 07/17/24  
**Time Collected:** 11:16  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/30/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/28/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/05/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 08/01/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.7	1.0	mg/kg	
Barium	73.1	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	40,500	50	mg/kg	
Chromium	19.9	0.5	mg/kg	
Cobalt	12.3	0.5	mg/kg	
Copper	27.7	0.5	mg/kg	
Iron	21,900	5.0	mg/kg	
Lead	27.2	0.5	mg/kg	
Magnesium	19,800	50	mg/kg	
Manganese	437	0.5	mg/kg	
Nickel	30.5	0.5	mg/kg	
Potassium	2,220	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	857	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	27.2	1.0	mg/kg	
Zinc	58.7	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 08/02/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/22/24 10:30				
pH @ 25°C, 1:2	8.37		Units	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-57-02 (0-5)  
**Sample No:** 24-6328-021

**Date Collected:** 07/17/24  
**Time Collected:** 11:16  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/31/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/07/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/05/24				
Arsenic	< 0.010	0.010	mg/L	
Barium	1.2	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	0.78	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 08/02/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/31/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/06/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/05/24				
Arsenic	0.017	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	0.079	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.079	0.005	mg/L	
Iron	76.6	0.1	mg/L	
Lead	0.061	0.005	mg/L	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-57-02 (0-5)  
**Sample No:** 24-6328-021

**Date Collected:** 07/17/24  
**Time Collected:** 11:16  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/06/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/05/24		
Manganese	0.56	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	0.2	0.1	mg/L	

<b>SPLP Mercury Method 1312</b> Analysis Date: 08/05/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.4	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.3	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	101.9	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	67.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	77	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	61.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	92	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	86	35 -	105
8270C	Phenol-d5 (surr)	%R:	81.5	50 -	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-57-02 (5-10)  
**Sample No:** 24-6328-022

**Date Collected:** 07/17/24  
**Time Collected:** 11:18  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/22/24				
Total Solids	80.73		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/23/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-57-02 (5-10)  
**Sample No:** 24-6328-022

**Date Collected:** 07/17/24  
**Time Collected:** 11:18  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/23/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/27/24				
Preparation Date: 07/25/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-57-02 (5-10)  
**Sample No:** 24-6328-022

**Date Collected:** 07/17/24  
**Time Collected:** 11:18  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/27/24		Preparation Date: 07/25/24		
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-57-02 (5-10)  
**Sample No:** 24-6328-022

**Date Collected:** 07/17/24  
**Time Collected:** 11:18  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/27/24		Preparation Method 3540C		
		Preparation Date: 07/25/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/05/24		Preparation Method 3050B		
		Preparation Date: 08/01/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.5	1.0	mg/kg	
Barium	56.7	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	36,900	50	mg/kg	
Chromium	18.0	0.5	mg/kg	
Cobalt	10.6	0.5	mg/kg	
Copper	27.3	0.5	mg/kg	
Iron	22,900	5.0	mg/kg	
Lead	13.6	0.5	mg/kg	
Magnesium	18,800	50	mg/kg	
Manganese	309	0.5	mg/kg	
Nickel	28.3	0.5	mg/kg	
Potassium	1,860	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	811	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	24.3	1.0	mg/kg	
Zinc	53.0	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 08/02/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/22/24 10:30				
pH @ 25°C, 1:2	8.27		Units	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-57-02 (5-10)  
**Sample No:** 24-6328-022

**Date Collected:** 07/17/24  
**Time Collected:** 11:18  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/31/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/07/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/05/24				
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	0.77	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 08/02/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/31/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/06/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/05/24				
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	0.022	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.023	0.005	mg/L	
Iron	20.2	0.1	mg/L	
Lead	0.007	0.005	mg/L	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-57-02 (5-10)  
**Sample No:** 24-6328-022

**Date Collected:** 07/17/24  
**Time Collected:** 11:18  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/06/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/05/24		
Manganese	0.11	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	

<b>SPLP Mercury Method 1312</b> Analysis Date: 08/05/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	93.9	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.8	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	101.2	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	65	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	65	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	57	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	86	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	76	35 -	105
8270C	Phenol-d5 (surr)	%R:	76	50 -	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-58-01 (0-3)  
**Sample No:** 24-6251-026

**Date Collected:** 07/16/24  
**Time Collected:** 11:47  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/19/24				
Total Solids	79.55		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-58-01 (0-3)  
**Sample No:** 24-6251-026

**Date Collected:** 07/16/24  
**Time Collected:** 11:47  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/22/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/26/24				
Preparation Date: 07/22/24				
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-58-01 (0-3)  
**Sample No:** 24-6251-026

**Date Collected:** 07/16/24  
**Time Collected:** 11:47  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/26/24		Preparation Date: 07/22/24		
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	
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	



### Analytical Report

<b>Client:</b>	HUFF & HUFF INC.	<b>Date Collected:</b>	07/16/24
<b>Project ID:</b>	IDOT WO39A #81.0220714.72	<b>Time Collected:</b>	11:47
<b>Sample ID:</b>	1560V3-58-01 (0-3)	<b>Date Received:</b>	07/16/24
<b>Sample No:</b>	24-6251-026	<b>Date Reported:</b>	08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>				
<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>		
Analysis Date: 07/26/24		Preparation Date: 07/22/24		
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	
<b>Total Metals</b>				
<b>Method: 6010C</b>		<b>Preparation Method 3050B</b>		
Analysis Date: 08/02/24		Preparation Date: 08/01/24		
Antimony	1.3	1.0	mg/kg	
Arsenic	3.3	1.0	mg/kg	
Barium	38.5	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	26,300	50	mg/kg	
Chromium	14.4	0.5	mg/kg	
Cobalt	8.2	0.5	mg/kg	
Copper	16.6	0.5	mg/kg	
Iron	41,200	5.0	mg/kg	
Lead	9.0	0.5	mg/kg	
Magnesium	18,900	50	mg/kg	
Manganese	432	0.5	mg/kg	
Nickel	22.1	0.5	mg/kg	
Potassium	1,610	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	1,380	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	19.2	1.0	mg/kg	
Zinc	33.5	1.0	mg/kg	
<b>Total Mercury</b>				
<b>Method: 7471B</b>				
Analysis Date: 07/30/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>				
<b>Method: 9045D</b>				
Analysis Date: 07/22/24 10:30				
pH @ 25°C, 1:2	7.92		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-58-01 (0-3)  
**Sample No:** 24-6251-026

**Date Collected:** 07/16/24  
**Time Collected:** 11:47  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**  
 Analysis Date: 07/26/24  
 TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A**  
 Analysis Date: 08/05/24 Preparation Date: 08/01/24

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	3.52	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: 08/01/24  
 Mercury < 0.0005 0.0005 mg/L

**SPLP Extraction Method: 1312**  
 Analysis Date: 07/26/24  
 SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A**  
 Analysis Date: 08/05/24 Preparation Date: 08/01/24

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	< 0.005	0.005	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-58-01 (0-3)  
**Sample No:** 24-6251-026

**Date Collected:** 07/16/24  
**Time Collected:** 11:47  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 08/05/24				Preparation Date: 08/01/24
Manganese	0.13	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	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 08/01/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	105.5	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	103.4	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104.4	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	89	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	71	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	75.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	94	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	81	35 -	105
8270C	Phenol-d5 (surr)	%R:	78.5	50 -	100



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-58-01 (3-6)  
**Sample No:** 24-6251-027

**Date Collected:** 07/16/24  
**Time Collected:** 11:50  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/19/24				
Total Solids	80.73		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-58-01 (3-6)  
**Sample No:** 24-6251-027

**Date Collected:** 07/16/24  
**Time Collected:** 11:50  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/22/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/26/24				
Preparation Date: 07/22/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-58-01 (3-6)  
**Sample No:** 24-6251-027

**Date Collected:** 07/16/24  
**Time Collected:** 11:50  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/26/24		Preparation Date: 07/22/24		
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	
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	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-58-01 (3-6)  
**Sample No:** 24-6251-027

**Date Collected:** 07/16/24  
**Time Collected:** 11:50  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/26/24		Preparation Method 3540C		
		Preparation Date: 07/22/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/02/24		Preparation Method 3050B		
		Preparation Date: 08/01/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.0	1.0	mg/kg	
Barium	78.4	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	39,700	50	mg/kg	
Chromium	17.1	0.5	mg/kg	
Cobalt	9.6	0.5	mg/kg	
Copper	21.6	0.5	mg/kg	
Iron	19,200	5.0	mg/kg	
Lead	17.2	0.5	mg/kg	
Magnesium	19,500	50	mg/kg	
Manganese	394	0.5	mg/kg	
Nickel	24.8	0.5	mg/kg	
Potassium	1,730	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,890	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	23.3	1.0	mg/kg	
Zinc	45.6	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/30/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/22/24 10:30				
pH @ 25°C, 1:2	8.21		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-58-01 (3-6)  
**Sample No:** 24-6251-027

**Date Collected:** 07/16/24  
**Time Collected:** 11:50  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**  
 Analysis Date: 07/26/24

TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C**  
 Analysis Date: 08/02/24 **Preparation Method 3010A**  
 Preparation Date: 08/02/24

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 Method: 7470A**  
 Analysis Date: 08/01/24

Mercury < 0.0005 0.0005 mg/L

**SPLP Extraction Method: 1312**  
 Analysis Date: 07/26/24

SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C**  
 Analysis Date: 08/05/24 **Preparation Method 3010A**  
 Preparation Date: 08/01/24

Arsenic	0.054	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.006	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.155	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.172	0.005	mg/L	
Iron	169	0.1	mg/L	
Lead	0.132	0.005	mg/L	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-58-01 (3-6)  
**Sample No:** 24-6251-027

**Date Collected:** 07/16/24  
**Time Collected:** 11:50  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/05/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/01/24		
Manganese	0.96	0.10	mg/L	
Nickel	0.2	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.4	0.1	mg/L	

<b>SPLP Mercury Method 1312</b> Analysis Date: 08/01/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	105.4	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	102.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	86	45	112
8270C	2-Fluorophenol (Surr)	%R:	66	41	84
8270C	d14-Terphenyl (Surr)	%R:	109	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	88	35	105
8270C	Phenol-d5 (surr)	%R:	75.5	50	100



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** DUP-13  
**Sample No:** 24-6251-040

**Date Collected:** 07/16/24  
**Time Collected:** 11:55  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/19/24				
Total Solids	78.12		%	

<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/23/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** DUP-13  
**Sample No:** 24-6251-040

**Date Collected:** 07/16/24  
**Time Collected:** 11:55  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/23/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/26/24				
Preparation Date: 07/23/24				
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	211	90	ug/kg	
Benzo(b)fluoranthene	347	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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** DUP-13  
**Sample No:** 24-6251-040

**Date Collected:** 07/16/24  
**Time Collected:** 11:55  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/26/24		Preparation Date: 07/23/24		
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	449	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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** DUP-13  
**Sample No:** 24-6251-040

**Date Collected:** 07/16/24  
**Time Collected:** 11:55  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/26/24		Preparation Method 3540C		
		Preparation Date: 07/23/24		
Pyrene	367	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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/02/24		Preparation Method 3050B		
		Preparation Date: 08/01/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.3	1.0	mg/kg	
Barium	60.9	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	35,700	50	mg/kg	
Chromium	33.2	0.5	mg/kg	
Cobalt	9.1	0.5	mg/kg	
Copper	27.4	0.5	mg/kg	
Iron	25,200	5.0	mg/kg	
Lead	28.4	0.5	mg/kg	
Magnesium	20,700	50	mg/kg	
Manganese	720	0.5	mg/kg	
Nickel	24.9	0.5	mg/kg	
Potassium	1,340	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	2,020	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	36.0	1.0	mg/kg	
Zinc	55.8	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/30/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/22/24 10:30				
pH @ 25°C, 1:2	8.36		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** DUP-13  
**Sample No:** 24-6251-040

**Date Collected:** 07/16/24  
**Time Collected:** 11:55  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**

Analysis Date: 07/29/24

TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A**  
 Analysis Date: 08/02/24 Preparation Date: 08/02/24

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 Method: 7470A**

Analysis Date: 08/01/24

Mercury < 0.0005 0.0005 mg/L

**SPLP Extraction Method: 1312**

Analysis Date: 07/29/24

SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A**  
 Analysis Date: 08/05/24 Preparation Date: 08/01/24

Arsenic	0.018	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	0.060	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.066	0.005	mg/L	
Iron	64.1	0.1	mg/L	
Lead	0.077	0.005	mg/L	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** DUP-13  
**Sample No:** 24-6251-040

**Date Collected:** 07/16/24  
**Time Collected:** 11:55  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/05/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/01/24		
Manganese	0.30	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	0.2	0.1	mg/L	

<b>SPLP Mercury Method 1312</b> Analysis Date: 08/02/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.2	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.9	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	97.9	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	69.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	79	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	67.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	95	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	86	35 -	105
8270C	Phenol-d5 (surr)	%R:	86	50 -	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-60-01 (0-3)  
**Sample No:** 24-6251-028

**Date Collected:** 07/16/24  
**Time Collected:** 11:58  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/19/24				
Total Solids	80.97		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-60-01 (0-3)  
**Sample No:** 24-6251-028

**Date Collected:** 07/16/24  
**Time Collected:** 11:58  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	

<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>	
Analysis Date: 07/26/24				
Preparation Date: 07/22/24				
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-60-01 (0-3)  
**Sample No:** 24-6251-028

**Date Collected:** 07/16/24  
**Time Collected:** 11:58  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/26/24		Preparation Date: 07/22/24		
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-60-01 (0-3)  
**Sample No:** 24-6251-028

**Date Collected:** 07/16/24  
**Time Collected:** 11:58  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>				
<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>		
Analysis Date: 07/26/24		Preparation Date: 07/22/24		
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	
<b>Total Metals</b>				
<b>Method: 6010C</b>		<b>Preparation Method 3050B</b>		
Analysis Date: 08/02/24		Preparation Date: 08/01/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.9	1.0	mg/kg	
Barium	66.5	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	42,000	50	mg/kg	
Chromium	19.3	0.5	mg/kg	
Cobalt	10.6	0.5	mg/kg	
Copper	26.3	0.5	mg/kg	
Iron	21,800	5.0	mg/kg	
Lead	24.7	0.5	mg/kg	
Magnesium	21,300	50	mg/kg	
Manganese	390	0.5	mg/kg	
Nickel	30.4	0.5	mg/kg	
Potassium	1,970	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	1,620	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	25.7	1.0	mg/kg	
Zinc	53.5	1.0	mg/kg	
<b>Total Mercury</b>				
<b>Method: 7471B</b>				
Analysis Date: 07/30/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>				
<b>Method: 9045D</b>				
Analysis Date: 07/22/24 10:30				
pH @ 25°C, 1:2	8.69		Units	



### Analytical Report

<b>Client:</b>	HUFF & HUFF INC.	<b>Date Collected:</b>	07/16/24
<b>Project ID:</b>	IDOT WO39A #81.0220714.72	<b>Time Collected:</b>	11:58
<b>Sample ID:</b>	1560V3-60-01 (0-3)	<b>Date Received:</b>	07/16/24
<b>Sample No:</b>	24-6251-028	<b>Date Reported:</b>	08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/29/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/02/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/02/24				
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	2.48	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 08/01/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/29/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/05/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/01/24				
Arsenic	0.020	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	0.063	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.068	0.005	mg/L	
Iron	61.1	0.1	mg/L	
Lead	0.091	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-60-01 (0-3)  
**Sample No:** 24-6251-028

**Date Collected:** 07/16/24  
**Time Collected:** 11:58  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 08/05/24				Preparation Date: 08/01/24
Manganese	0.51	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	0.2	0.1	mg/L	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 08/01/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	105.6	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	102.6	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104.2	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	115.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	86	45	112
8270C	2-Fluorophenol (Surr)	%R:	81	41	84
8270C	d14-Terphenyl (Surr)	%R:	112	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	85	35	105
8270C	Phenol-d5 (surr)	%R:	85.5	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-60-01 (3-6)  
**Sample No:** 24-6251-029

**Date Collected:** 07/16/24  
**Time Collected:** 12:00  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/19/24				
Total Solids	81.40		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-60-01 (3-6)  
**Sample No:** 24-6251-029

**Date Collected:** 07/16/24  
**Time Collected:** 12:00  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	

<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>	
Analysis Date: 07/23/24				
Preparation Date: 07/22/24				
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	92	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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-60-01 (3-6)  
**Sample No:** 24-6251-029

**Date Collected:** 07/16/24  
**Time Collected:** 12:00  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/23/24		Preparation Date: 07/22/24		
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	
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	



### Analytical Report

<b>Client:</b>	HUFF & HUFF INC.	<b>Date Collected:</b>	07/16/24
<b>Project ID:</b>	IDOT WO39A #81.0220714.72	<b>Time Collected:</b>	12:00
<b>Sample ID:</b>	1560V3-60-01 (3-6)	<b>Date Received:</b>	07/16/24
<b>Sample No:</b>	24-6251-029	<b>Date Reported:</b>	08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>				
<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>		
Analysis Date: 07/23/24		Preparation Date: 07/22/24		
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	
<b>Total Metals</b>				
<b>Method: 6010C</b>		<b>Preparation Method 3050B</b>		
Analysis Date: 08/02/24		Preparation Date: 08/01/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.5	1.0	mg/kg	
Barium	58.2	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	39,400	50	mg/kg	
Chromium	17.4	0.5	mg/kg	
Cobalt	9.3	0.5	mg/kg	
Copper	21.4	0.5	mg/kg	
Iron	19,000	5.0	mg/kg	
Lead	23.1	0.5	mg/kg	
Magnesium	19,900	50	mg/kg	
Manganese	369	0.5	mg/kg	
Nickel	25.7	0.5	mg/kg	
Potassium	1,830	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,310	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	22.4	1.0	mg/kg	
Zinc	46.8	1.0	mg/kg	
<b>Total Mercury</b>				
<b>Method: 7471B</b>				
Analysis Date: 07/30/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>				
<b>Method: 9045D</b>				
Analysis Date: 07/22/24 10:30				
pH @ 25°C, 1:2	8.15		Units	



### Analytical Report

<b>Client:</b>	HUFF & HUFF INC.	<b>Date Collected:</b>	07/16/24
<b>Project ID:</b>	IDOT WO39A #81.0220714.72	<b>Time Collected:</b>	12:00
<b>Sample ID:</b>	1560V3-60-01 (3-6)	<b>Date Received:</b>	07/16/24
<b>Sample No:</b>	24-6251-029	<b>Date Reported:</b>	08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/29/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/02/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/02/24				
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	4.59	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 08/01/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/29/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/05/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/01/24				
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	0.031	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.032	0.005	mg/L	
Iron	27.7	0.1	mg/L	
Lead	0.025	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-60-01 (3-6)  
**Sample No:** 24-6251-029

**Date Collected:** 07/16/24  
**Time Collected:** 12:00  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/05/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/01/24		
Manganese	0.34	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	

<b>SPLP Mercury Method 1312</b> Analysis Date: 08/01/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	106.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.8	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	82.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	84	45	112
8270C	2-Fluorophenol (Surr)	%R:	80	41	84
8270C	d14-Terphenyl (Surr)	%R:	109	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	81	35	105
8270C	Phenol-d5 (surr)	%R:	95.5	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-60-02 (0-3)  
**Sample No:** 24-6251-030

**Date Collected:** 07/16/24  
**Time Collected:** 12:10  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/19/24				
Total Solids	82.53		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-60-02 (0-3)  
**Sample No:** 24-6251-030

**Date Collected:** 07/16/24  
**Time Collected:** 12:10  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	

<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>	
Analysis Date: 07/26/24		Preparation Date: 07/22/24			
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	162	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		
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		



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-60-02 (0-3)  
**Sample No:** 24-6251-030

**Date Collected:** 07/16/24  
**Time Collected:** 12:10  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/26/24		Preparation Date: 07/22/24		
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	394	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	
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	





**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-60-02 (0-3)  
**Sample No:** 24-6251-030

**Date Collected:** 07/16/24  
**Time Collected:** 12:10  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/26/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/22/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/02/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 08/01/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.0	1.0	mg/kg	
Barium	93.2	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	13,700	50	mg/kg	
Chromium	15.8	0.5	mg/kg	
Cobalt	8.1	0.5	mg/kg	
Copper	20.1	0.5	mg/kg	
Iron	20,400	5.0	mg/kg	
Lead	32.9	0.5	mg/kg	
Magnesium	9,200	50	mg/kg	
Manganese	335	0.5	mg/kg	
Nickel	19.6	0.5	mg/kg	
Potassium	1,170	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	90	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	26.9	1.0	mg/kg	
Zinc	51.1	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/30/24				
Mercury	0.06	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/22/24 10:30				
pH @ 25°C, 1:2	8.09		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-60-02 (0-3)  
**Sample No:** 24-6251-030

**Date Collected:** 07/16/24  
**Time Collected:** 12:10  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/29/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/02/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/02/24				
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	0.90	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 08/01/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/29/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/05/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/01/24				
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	0.006	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.008	0.005	mg/L	
Iron	4.2	0.1	mg/L	
Lead	0.010	0.005	mg/L	



### Analytical Report

<b>Client:</b>	HUFF & HUFF INC.	<b>Date Collected:</b>	07/16/24
<b>Project ID:</b>	IDOT WO39A #81.0220714.72	<b>Time Collected:</b>	12:10
<b>Sample ID:</b>	1560V3-60-02 (0-3)	<b>Date Received:</b>	07/16/24
<b>Sample No:</b>	24-6251-030	<b>Date Reported:</b>	08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/05/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/01/24		
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	

<b>SPLP Mercury Method 1312</b> Analysis Date: 08/01/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	106.9	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	103	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104.2	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	68	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	87	45	112
8270C	2-Fluorophenol (Surr)	%R:	70	41	84
8270C	d14-Terphenyl (Surr)	%R:	93	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	92	35	105
8270C	Phenol-d5 (surr)	%R:	88	50	100



## Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** DUP-14  
**Sample No:** 24-6251-041

**Date Collected:** 07/16/24  
**Time Collected:** 12:20  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/22/24				
Total Solids	82.16		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/23/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** DUP-14  
**Sample No:** 24-6251-041

**Date Collected:** 07/16/24  
**Time Collected:** 12:20  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/23/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/26/24				
Preparation Date: 07/23/24				
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	110	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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** DUP-14  
**Sample No:** 24-6251-041

**Date Collected:** 07/16/24  
**Time Collected:** 12:20  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/26/24		Preparation Date: 07/23/24		
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	356	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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** DUP-14  
**Sample No:** 24-6251-041

**Date Collected:** 07/16/24  
**Time Collected:** 12:20  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/26/24		Preparation Method 3540C		
		Preparation Date: 07/23/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/02/24		Preparation Method 3050B		
		Preparation Date: 08/01/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.5	1.0	mg/kg	
Barium	56.8	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	19,000	50	mg/kg	
Chromium	12.0	0.5	mg/kg	
Cobalt	6.4	0.5	mg/kg	
Copper	39.5	0.5	mg/kg	
Iron	20,700	5.0	mg/kg	
Lead	44.0	0.5	mg/kg	
Magnesium	11,000	50	mg/kg	
Manganese	150	0.5	mg/kg	
Nickel	16.5	0.5	mg/kg	
Potassium	749	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	135	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	22.9	1.0	mg/kg	
Zinc	65.3	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 08/02/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/22/24 10:30				
pH @ 25°C, 1:2	8.03		Units	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** DUP-14  
**Sample No:** 24-6251-041

**Date Collected:** 07/16/24  
**Time Collected:** 12:20  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/29/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/02/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/02/24				
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	2.74	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 08/01/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/29/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/05/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/01/24				
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	0.006	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.009	0.005	mg/L	
Iron	5.5	0.1	mg/L	
Lead	0.008	0.005	mg/L	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** DUP-14  
**Sample No:** 24-6251-041

**Date Collected:** 07/16/24  
**Time Collected:** 12:20  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 08/05/24				Preparation Date: 08/01/24
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	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 08/02/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.2	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.8	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	97.6	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	75	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	84	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	73	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	100	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	92	35 -	105
8270C	Phenol-d5 (surr)	%R:	90.5	50 -	100



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-60-02 (3-6)  
**Sample No:** 24-6251-031

**Date Collected:** 07/16/24  
**Time Collected:** 12:15  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/19/24				
Total Solids	80.31		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-60-02 (3-6)  
**Sample No:** 24-6251-031

**Date Collected:** 07/16/24  
**Time Collected:** 12:15  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/22/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/26/24				
Preparation Date: 07/22/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-60-02 (3-6)  
**Sample No:** 24-6251-031

**Date Collected:** 07/16/24  
**Time Collected:** 12:15  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/26/24		Preparation Date: 07/22/24		
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-60-02 (3-6)  
**Sample No:** 24-6251-031

**Date Collected:** 07/16/24  
**Time Collected:** 12:15  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/26/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/22/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/02/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 08/01/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.8	1.0	mg/kg	
Barium	75.6	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	23,300	50	mg/kg	
Chromium	18.1	0.5	mg/kg	
Cobalt	10.9	0.5	mg/kg	
Copper	32.4	0.5	mg/kg	
Iron	20,900	5.0	mg/kg	
Lead	21.6	0.5	mg/kg	
Magnesium	14,300	50	mg/kg	
Manganese	324	0.5	mg/kg	
Nickel	33.6	0.5	mg/kg	
Potassium	1,570	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	356	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	24.3	1.0	mg/kg	
Zinc	61.0	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/30/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/22/24 10:30				
pH @ 25°C, 1:2	8.03		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-60-02 (3-6)  
**Sample No:** 24-6251-031

**Date Collected:** 07/16/24  
**Time Collected:** 12:15  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/29/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/02/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/02/24				
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	3.96	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 08/01/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/29/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/05/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/01/24				
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	< 0.005	0.005	mg/L	
Iron	1.6	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-60-02 (3-6)  
**Sample No:** 24-6251-031

**Date Collected:** 07/16/24  
**Time Collected:** 12:15  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/05/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/01/24		
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	

<b>SPLP Mercury Method 1312</b> Analysis Date: 08/01/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	106.1	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	103.8	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104.2	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	109	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	83	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	79.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	102	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	77	35 -	105
8270C	Phenol-d5 (surr)	%R:	83	50 -	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-61-02 (0-3)  
**Sample No:** 24-6251-034

**Date Collected:** 07/16/24  
**Time Collected:** 12:27  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/19/24				
Total Solids	87.74		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-61-02 (0-3)  
**Sample No:** 24-6251-034

**Date Collected:** 07/16/24  
**Time Collected:** 12:27  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/24/24				
Preparation Date: 07/23/24				
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	306	90	ug/kg	
Benzo(b)fluoranthene	451	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	362	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-61-02 (0-3)  
**Sample No:** 24-6251-034

**Date Collected:** 07/16/24  
**Time Collected:** 12:27  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/24/24		Preparation Date: 07/23/24		
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	639	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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-61-02 (0-3)  
**Sample No:** 24-6251-034

**Date Collected:** 07/16/24  
**Time Collected:** 12:27  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/24/24		Preparation Method <b>3540C</b>		
		Preparation Date: 07/23/24		
Pyrene	593	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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/02/24		Preparation Method <b>3050B</b>		
		Preparation Date: 08/01/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.7	1.0	mg/kg	
Barium	61.8	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	52,300	50	mg/kg	
Chromium	17.8	0.5	mg/kg	
Cobalt	6.9	0.5	mg/kg	
Copper	23.0	0.5	mg/kg	
Iron	17,000	5.0	mg/kg	
Lead	68.0	0.5	mg/kg	
Magnesium	27,200	50	mg/kg	
Manganese	270	0.5	mg/kg	
Nickel	22.2	0.5	mg/kg	
Potassium	1,410	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	370	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	21.3	1.0	mg/kg	
Zinc	59.3	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/30/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/22/24 10:30				
pH @ 25°C, 1:2	8.60		Units	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-61-02 (0-3)  
**Sample No:** 24-6251-034

**Date Collected:** 07/16/24  
**Time Collected:** 12:27  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/29/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/02/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/02/24				
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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 08/01/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/29/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/05/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/01/24				
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	0.025	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.030	0.005	mg/L	
Iron	25.5	0.1	mg/L	
Lead	0.035	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-61-02 (0-3)  
**Sample No:** 24-6251-034

**Date Collected:** 07/16/24  
**Time Collected:** 12:27  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/05/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/01/24		
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	

<b>SPLP Mercury Method 1312</b> Analysis Date: 08/02/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	102.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	104.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	107.1	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	73	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	84	45	112
8270C	2-Fluorophenol (Surr)	%R:	71	41	84
8270C	d14-Terphenyl (Surr)	%R:	102	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	86	35	105
8270C	Phenol-d5 (surr)	%R:	90	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-61-02 (3-6)  
**Sample No:** 24-6251-035

**Date Collected:** 07/16/24  
**Time Collected:** 12:30  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/19/24				
Total Solids	81.96		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-61-02 (3-6)  
**Sample No:** 24-6251-035

**Date Collected:** 07/16/24  
**Time Collected:** 12:30  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/26/24				
Preparation Date: 07/23/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-61-02 (3-6)  
**Sample No:** 24-6251-035

**Date Collected:** 07/16/24  
**Time Collected:** 12:30  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/26/24		Preparation Date: 07/23/24		
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	
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	





### Analytical Report

<b>Client:</b>	HUFF & HUFF INC.	<b>Date Collected:</b>	07/16/24
<b>Project ID:</b>	IDOT WO39A #81.0220714.72	<b>Time Collected:</b>	12:30
<b>Sample ID:</b>	1560V3-61-02 (3-6)	<b>Date Received:</b>	07/16/24
<b>Sample No:</b>	24-6251-035	<b>Date Reported:</b>	08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/26/24		Preparation Method 3540C		
		Preparation Date: 07/23/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/02/24		Preparation Method 3050B		
		Preparation Date: 08/01/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.5	1.0	mg/kg	
Barium	47.3	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	42,300	50	mg/kg	
Chromium	17.5	0.5	mg/kg	
Cobalt	7.7	0.5	mg/kg	
Copper	26.7	0.5	mg/kg	
Iron	19,700	5.0	mg/kg	
Lead	33.6	0.5	mg/kg	
Magnesium	22,500	50	mg/kg	
Manganese	266	0.5	mg/kg	
Nickel	25.8	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	341	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	23.0	1.0	mg/kg	
Zinc	57.5	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/30/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/22/24 10:30				
pH @ 25°C, 1:2	8.54		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-61-02 (3-6)  
**Sample No:** 24-6251-035

**Date Collected:** 07/16/24  
**Time Collected:** 12:30  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**

Analysis Date: 07/29/24

TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A**  
 Analysis Date: 08/02/24 Preparation Date: 08/02/24

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	2.67	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: 08/01/24

Mercury < 0.0005 0.0005 mg/L

**SPLP Extraction Method: 1312**

Analysis Date: 07/29/24

SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A**  
 Analysis Date: 08/05/24 Preparation Date: 08/01/24

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	0.014	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.016	0.005	mg/L	
Iron	12.8	0.1	mg/L	
Lead	0.011	0.005	mg/L	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-61-02 (3-6)  
**Sample No:** 24-6251-035

**Date Collected:** 07/16/24  
**Time Collected:** 12:30  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 08/05/24		Preparation Date: 08/01/24		
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	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 08/02/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	101.8	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	104.1	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	106.5	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	73	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	87	45	112
8270C	2-Fluorophenol (Surr)	%R:	68.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	102	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	88	35	105
8270C	Phenol-d5 (surr)	%R:	86	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** DUP-15  
**Sample No:** 24-6251-042

**Date Collected:** 07/16/24  
**Time Collected:** 12:35  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/22/24				
Total Solids	82.53		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/23/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** DUP-15  
**Sample No:** 24-6251-042

**Date Collected:** 07/16/24  
**Time Collected:** 12:35  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/23/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/26/24				
Preparation Date: 07/23/24				
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	135	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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** DUP-15  
**Sample No:** 24-6251-042

**Date Collected:** 07/16/24  
**Time Collected:** 12:35  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/26/24		Preparation Date: 07/23/24		
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** DUP-15  
**Sample No:** 24-6251-042

**Date Collected:** 07/16/24  
**Time Collected:** 12:35  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>				
<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>		
Analysis Date: 07/26/24		Preparation Date: 07/23/24		
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	
<b>Total Metals</b>				
<b>Method: 6010C</b>		<b>Preparation Method 3050B</b>		
Analysis Date: 08/02/24		Preparation Date: 08/01/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.6	1.0	mg/kg	
Barium	67.0	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	34,000	50	mg/kg	
Chromium	18.0	0.5	mg/kg	
Cobalt	12.7	0.5	mg/kg	
Copper	24.6	0.5	mg/kg	
Iron	19,300	5.0	mg/kg	
Lead	54.9	0.5	mg/kg	
Magnesium	16,400	50	mg/kg	
Manganese	487	0.5	mg/kg	
Nickel	29.6	0.5	mg/kg	
Potassium	1,630	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	396	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	24.3	1.0	mg/kg	
Zinc	60.8	1.0	mg/kg	
<b>Total Mercury</b>				
<b>Method: 7471B</b>				
Analysis Date: 08/02/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>				
<b>Method: 9045D</b>				
Analysis Date: 07/22/24 10:30				
pH @ 25°C, 1:2	8.27		Units	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** DUP-15  
**Sample No:** 24-6251-042

**Date Collected:** 07/16/24  
**Time Collected:** 12:35  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/29/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/02/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/02/24				
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	0.018	0.005	mg/L	
Manganese	2.79	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 08/01/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/29/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/05/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/01/24				
Arsenic	0.011	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	0.043	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.042	0.005	mg/L	
Iron	42.4	0.1	mg/L	
Lead	0.053	0.005	mg/L	





**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** DUP-15  
**Sample No:** 24-6251-042

**Date Collected:** 07/16/24  
**Time Collected:** 12:35  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 08/05/24		Preparation Date: 08/01/24		
Manganese	0.24	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	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 08/02/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	97.7	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	62	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	96	45	112
8270C	2-Fluorophenol (Surr)	%R:	63.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	102	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	97	35	105
8270C	Phenol-d5 (surr)	%R:	86.5	50	100



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-62-01 (0-3)  
**Sample No:** 24-6251-036

**Date Collected:** 07/16/24  
**Time Collected:** 12:40  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/19/24				
Total Solids	95.07		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-62-01 (0-3)  
**Sample No:** 24-6251-036

**Date Collected:** 07/16/24  
**Time Collected:** 12:40  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	

<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>	
Analysis Date: 07/26/24		Preparation Date: 07/23/24			
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		
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		



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-62-01 (0-3)  
**Sample No:** 24-6251-036

**Date Collected:** 07/16/24  
**Time Collected:** 12:40  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/26/24		Preparation Date: 07/23/24		
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	
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	



### Analytical Report

<b>Client:</b>	HUFF & HUFF INC.	<b>Date Collected:</b>	07/16/24
<b>Project ID:</b>	IDOT WO39A #81.0220714.72	<b>Time Collected:</b>	12:40
<b>Sample ID:</b>	1560V3-62-01 (0-3)	<b>Date Received:</b>	07/16/24
<b>Sample No:</b>	24-6251-036	<b>Date Reported:</b>	08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>				
<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>		
Analysis Date: 07/26/24		Preparation Date: 07/23/24		
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	
<b>Total Metals</b>				
<b>Method: 6010C</b>		<b>Preparation Method 3050B</b>		
Analysis Date: 08/02/24		Preparation Date: 08/01/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	< 1.0	1.0	mg/kg	
Barium	2.7	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	154,000	50	mg/kg	
Chromium	1.0	0.5	mg/kg	
Cobalt	< 0.5	0.5	mg/kg	
Copper	0.8	0.5	mg/kg	
Iron	962	5.0	mg/kg	
Lead	< 0.5	0.5	mg/kg	
Magnesium	96,800	50	mg/kg	
Manganese	90.3	0.5	mg/kg	
Nickel	1.5	0.5	mg/kg	
Potassium	375	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	293	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	2.1	1.0	mg/kg	
Zinc	1.0	1.0	mg/kg	
<b>Total Mercury</b>				
<b>Method: 7471B</b>				
Analysis Date: 07/30/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>				
<b>Method: 9045D</b>				
Analysis Date: 07/22/24 10:30				
pH @ 25°C, 1:2	8.83		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-62-01 (0-3)  
**Sample No:** 24-6251-036

**Date Collected:** 07/16/24  
**Time Collected:** 12:40  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**  
 Analysis Date: 07/29/24

TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C**  
 Analysis Date: 08/02/24  
**Preparation Method 3010A**  
 Preparation Date: 08/02/24

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	1.16	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: 08/01/24

Mercury < 0.0005 0.0005 mg/L

**SPLP Extraction Method: 1312**  
 Analysis Date: 07/29/24

SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C**  
 Analysis Date: 08/05/24  
**Preparation Method 3010A**  
 Preparation Date: 08/01/24

Arsenic	0.014	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	0.044	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.045	0.005	mg/L	
Iron	44.3	0.1	mg/L	
Lead	0.079	0.005	mg/L	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-62-01 (0-3)  
**Sample No:** 24-6251-036

**Date Collected:** 07/16/24  
**Time Collected:** 12:40  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/05/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/01/24		
Manganese	0.37	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	0.3	0.1	mg/L	

<b>SPLP Mercury Method 1312</b> Analysis Date: 08/02/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	103.8	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	104.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	107.5	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	109.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	78	45	112
8270C	2-Fluorophenol (Surr)	%R:	66.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	110	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	81	35	105
8270C	Phenol-d5 (surr)	%R:	72.5	50	100



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-62-01 (3-6)  
**Sample No:** 24-6251-037

**Date Collected:** 07/16/24  
**Time Collected:** 12:45  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/19/24				
Total Solids	83.75		%	

<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-62-01 (3-6)  
**Sample No:** 24-6251-037

**Date Collected:** 07/16/24  
**Time Collected:** 12:45  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/26/24				
Preparation Date: 07/23/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-62-01 (3-6)  
**Sample No:** 24-6251-037

**Date Collected:** 07/16/24  
**Time Collected:** 12:45  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/26/24		Preparation Date: 07/23/24		
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-62-01 (3-6)  
**Sample No:** 24-6251-037

**Date Collected:** 07/16/24  
**Time Collected:** 12:45  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/26/24		Preparation Method 3540C		
		Preparation Date: 07/23/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/02/24		Preparation Method 3050B		
		Preparation Date: 08/01/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.7	1.0	mg/kg	
Barium	72.9	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	48,300	50	mg/kg	
Chromium	18.7	0.5	mg/kg	
Cobalt	5.7	0.5	mg/kg	
Copper	16.2	0.5	mg/kg	
Iron	17,300	5.0	mg/kg	
Lead	7.7	0.5	mg/kg	
Magnesium	22,000	50	mg/kg	
Manganese	202	0.5	mg/kg	
Nickel	23.8	0.5	mg/kg	
Potassium	2,110	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	2,090	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	21.4	1.0	mg/kg	
Zinc	42.9	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/30/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/22/24 10:30				
pH @ 25°C, 1:2	8.99		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-62-01 (3-6)  
**Sample No:** 24-6251-037

**Date Collected:** 07/16/24  
**Time Collected:** 12:45  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/29/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/02/24				
		<b>Preparation Method 3010A</b>		
		Preparation Date: 08/02/24		
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	3.03	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 08/01/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/29/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/05/24				
		<b>Preparation Method 3010A</b>		
		Preparation Date: 08/01/24		
Arsenic	0.061	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	0.163	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.199	0.005	mg/L	
Iron	168	0.1	mg/L	
Lead	0.072	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A #81.0220714.72  
**Sample ID:** 1560V3-62-01 (3-6)  
**Sample No:** 24-6251-037

**Date Collected:** 07/16/24  
**Time Collected:** 12:45  
**Date Received:** 07/16/24  
**Date Reported:** 08/05/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/05/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/01/24		
Manganese	0.99	0.10	mg/L	
Nickel	0.2	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.4	0.1	mg/L	

<b>SPLP Mercury Method 1312</b> Analysis Date: 08/02/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	103.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	104.2	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	107	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	118.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	89	45	112
8270C	2-Fluorophenol (Surr)	%R:	82	41	84
8270C	d14-Terphenyl (Surr)	%R:	114	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	95	35	105
8270C	Phenol-d5 (surr)	%R:	86	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-63-01 (0-4)  
**Sample No:** 24-6328-001

**Date Collected:** 07/17/24  
**Time Collected:** 9:47  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/22/24				
Total Solids	85.71		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/23/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-63-01 (0-4)  
**Sample No:** 24-6328-001

**Date Collected:** 07/17/24  
**Time Collected:** 9:47  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/23/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/26/24				
Preparation Date: 07/23/24				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	452	330	ug/kg	
Anthracene	4,080	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	1,500	330	ug/kg	
Benzo(a)pyrene	1,430	90	ug/kg	
Benzo(b)fluoranthene	1,920	330	ug/kg	
Benzo(k)fluoranthene	563	330	ug/kg	
Benzo(ghi)perylene	1,030	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	1,600	330	ug/kg	
Dibenzo(a,h)anthracene	267	90	ug/kg	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-63-01 (0-4)  
**Sample No:** 24-6328-001

**Date Collected:** 07/17/24  
**Time Collected:** 9:47  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/26/24		Preparation Date: 07/23/24		
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	2,410	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	1,030	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	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	1,270	330	ug/kg	
Phenol	< 330	330	ug/kg	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-63-01 (0-4)  
**Sample No:** 24-6328-001

**Date Collected:** 07/17/24  
**Time Collected:** 9:47  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/26/24		Preparation Method 3540C		
		Preparation Date: 07/23/24		
Pyrene	2,300	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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/02/24		Preparation Method 3050B		
		Preparation Date: 08/01/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.7	1.0	mg/kg	
Barium	51.2	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	41,200	50	mg/kg	
Chromium	17.2	0.5	mg/kg	
Cobalt	7.2	0.5	mg/kg	
Copper	29.2	0.5	mg/kg	
Iron	16,000	5.0	mg/kg	
Lead	79.9	0.5	mg/kg	
Magnesium	26,300	50	mg/kg	
Manganese	165	0.5	mg/kg	
Nickel	22.1	0.5	mg/kg	
Potassium	1,380	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,450	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	20.5	1.0	mg/kg	
Zinc	62.9	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 08/02/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/22/24 10:30				
pH @ 25°C, 1:2	8.99		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-63-01 (0-4)  
**Sample No:** 24-6328-001

**Date Collected:** 07/17/24  
**Time Collected:** 9:47  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**  
 Analysis Date: 07/30/24  
 TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A**  
 Analysis Date: 08/06/24 Preparation Date: 08/05/24

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	0.025	0.005	mg/L	
Manganese	1.56	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: 08/01/24

Mercury	< 0.0005	0.0005	mg/L	
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**SPLP Extraction Method: 1312**  
 Analysis Date: 07/30/24  
 SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A**  
 Analysis Date: 08/06/24 Preparation Date: 08/05/24

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	0.015	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.017	0.005	mg/L	
Iron	12.5	0.1	mg/L	
Lead	0.046	0.005	mg/L	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-63-01 (0-4)  
**Sample No:** 24-6328-001

**Date Collected:** 07/17/24  
**Time Collected:** 9:47  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/06/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/05/24		
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	

<b>SPLP Mercury Method 1312</b> Analysis Date: 08/02/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.8	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.6	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	98.9	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	74	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	85	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	71.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	102	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	88	35 -	105
8270C	Phenol-d5 (surr)	%R:	91	50 -	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-63-01 (4-8)  
**Sample No:** 24-6328-002

**Date Collected:** 07/17/24  
**Time Collected:** 9:49  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/22/24				
Total Solids	76.36		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/23/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-63-01 (4-8)  
**Sample No:** 24-6328-002

**Date Collected:** 07/17/24  
**Time Collected:** 9:49  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/23/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/26/24				
Preparation Date: 07/23/24				
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-63-01 (4-8)  
**Sample No:** 24-6328-002

**Date Collected:** 07/17/24  
**Time Collected:** 9:49  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/26/24		Preparation Date: 07/23/24		
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-63-01 (4-8)  
**Sample No:** 24-6328-002

**Date Collected:** 07/17/24  
**Time Collected:** 9:49  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/26/24		Preparation Method <b>3540C</b>		
		Preparation Date: 07/23/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/02/24		Preparation Method <b>3050B</b>		
		Preparation Date: 08/01/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.4	1.0	mg/kg	
Barium	49.0	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	84,400	50	mg/kg	
Chromium	14.9	0.5	mg/kg	
Cobalt	9.2	0.5	mg/kg	
Copper	30.5	0.5	mg/kg	
Iron	17,700	5.0	mg/kg	
Lead	46.8	0.5	mg/kg	
Magnesium	55,300	50	mg/kg	
Manganese	371	0.5	mg/kg	
Nickel	26.5	0.5	mg/kg	
Potassium	1,410	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,830	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	19.5	1.0	mg/kg	
Zinc	49.4	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 08/02/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/22/24 10:30				
pH @ 25°C, 1:2	8.47		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-63-01 (4-8)  
**Sample No:** 24-6328-002

**Date Collected:** 07/17/24  
**Time Collected:** 9:49  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**  
 Analysis Date: 07/30/24  
 TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C**  
 Analysis Date: 08/06/24  
**Preparation Method 3010A**  
 Preparation Date: 08/05/24

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	4.01	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: 08/01/24  
 Mercury < 0.0005 0.0005 mg/L

**SPLP Extraction Method: 1312**  
 Analysis Date: 07/30/24  
 SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C**  
 Analysis Date: 08/06/24  
**Preparation Method 3010A**  
 Preparation Date: 08/05/24

Arsenic	0.028	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	0.053	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.115	0.005	mg/L	
Iron	67.7	0.1	mg/L	
Lead	0.085	0.005	mg/L	





**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-63-01 (4-8)  
**Sample No:** 24-6328-002

**Date Collected:** 07/17/24  
**Time Collected:** 9:49  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/06/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/05/24		
Manganese	0.69	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	0.2	0.1	mg/L	

<b>SPLP Mercury Method 1312</b> Analysis Date: 08/02/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.5	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.6	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	98.1	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	110.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	72	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	74.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	107	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	61	35 -	105
8270C	Phenol-d5 (surr)	%R:	79.5	50 -	100



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-63-01 (8-11)  
**Sample No:** 24-6328-003

**Date Collected:** 07/17/24  
**Time Collected:** 9:51  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/22/24				
Total Solids	79.89		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/23/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-63-01 (8-11)  
**Sample No:** 24-6328-003

**Date Collected:** 07/17/24  
**Time Collected:** 9:51  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/23/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/26/24				
Preparation Date: 07/23/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-63-01 (8-11)  
**Sample No:** 24-6328-003

**Date Collected:** 07/17/24  
**Time Collected:** 9:51  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/26/24		Preparation Date: 07/23/24		
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-63-01 (8-11)  
**Sample No:** 24-6328-003

**Date Collected:** 07/17/24  
**Time Collected:** 9:51  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/26/24		Preparation Method <b>3540C</b>		
		Preparation Date: 07/23/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/02/24		Preparation Method <b>3050B</b>		
		Preparation Date: 08/01/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.3	1.0	mg/kg	
Barium	43.3	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	41,500	50	mg/kg	
Chromium	16.2	0.5	mg/kg	
Cobalt	11.5	0.5	mg/kg	
Copper	22.0	0.5	mg/kg	
Iron	17,900	5.0	mg/kg	
Lead	13.3	0.5	mg/kg	
Magnesium	20,700	50	mg/kg	
Manganese	501	0.5	mg/kg	
Nickel	28.8	0.5	mg/kg	
Potassium	1,870	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	514	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	21.0	1.0	mg/kg	
Zinc	44.4	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 08/02/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/22/24 10:30				
pH @ 25°C, 1:2	7.87		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-63-01 (8-11)  
**Sample No:** 24-6328-003

**Date Collected:** 07/17/24  
**Time Collected:** 9:51  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**

Analysis Date: 07/30/24

TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A**

Analysis Date: 08/06/24

Preparation Date: 08/05/24

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	4.56	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: 08/01/24

Mercury < 0.0005 0.0005 mg/L

**SPLP Extraction Method: 1312**

Analysis Date: 07/30/24

SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A**

Analysis Date: 08/06/24

Preparation Date: 08/05/24

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	0.006	0.005	mg/L	
Iron	3.0	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-63-01 (8-11)  
**Sample No:** 24-6328-003

**Date Collected:** 07/17/24  
**Time Collected:** 9:51  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/06/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/05/24		
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	

<b>SPLP Mercury Method 1312</b> Analysis Date: 08/02/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	98.7	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	111.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	92	45	112
8270C	2-Fluorophenol (Surr)	%R:	82	41	84
8270C	d14-Terphenyl (Surr)	%R:	116	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	88	35	105
8270C	Phenol-d5 (surr)	%R:	86.5	50	100



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-77-01 (0-3)  
**Sample No:** 24-6140-013

**Date Collected:** 07/12/24  
**Time Collected:** 10:05  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/18/24				
Total Solids	81.01		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/19/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-77-01 (0-3)  
**Sample No:** 24-6140-013

**Date Collected:** 07/12/24  
**Time Collected:** 10:05  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/19/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/25/24				
Preparation Date: 07/18/24				
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	139	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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-77-01 (0-3)  
**Sample No:** 24-6140-013

**Date Collected:** 07/12/24  
**Time Collected:** 10:05  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/25/24		Preparation Date: 07/18/24		
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-77-01 (0-3)  
**Sample No:** 24-6140-013

**Date Collected:** 07/12/24  
**Time Collected:** 10:05  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>				
<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>		
Analysis Date: 07/25/24		Preparation Date: 07/18/24		
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	
<b>Total Metals</b>				
<b>Method: 6010C</b>		<b>Preparation Method 3050B</b>		
Analysis Date: 07/26/24		Preparation Date: 07/25/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.8	1.0	mg/kg	
Barium	82.3	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	0.7	0.5	mg/kg	
Calcium	40,800	50	mg/kg	
Chromium	17.8	0.5	mg/kg	
Cobalt	10.3	0.5	mg/kg	
Copper	25.5	0.5	mg/kg	
Iron	19,600	5.0	mg/kg	
Lead	85.2	0.5	mg/kg	
Magnesium	26,000	50	mg/kg	
Manganese	521	0.5	mg/kg	
Nickel	25.0	0.5	mg/kg	
Potassium	1,520	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	1,090	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	27.3	1.0	mg/kg	
Zinc	63.1	1.0	mg/kg	
<b>Total Mercury</b>				
<b>Method: 7471B</b>				
Analysis Date: 07/25/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>				
<b>Method: 9045D</b>				
Analysis Date: 07/17/24 11:30				
pH @ 25°C, 1:2	8.84		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-77-01 (0-3)  
**Sample No:** 24-6140-013

**Date Collected:** 07/12/24  
**Time Collected:** 10:05  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/23/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 07/30/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/29/24				
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	0.13	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/26/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/23/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 07/31/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/29/24				
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	0.065	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.052	0.005	mg/L	
Iron	51.8	0.1	mg/L	
Lead	0.043	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-77-01 (0-3)  
**Sample No:** 24-6140-013

**Date Collected:** 07/12/24  
**Time Collected:** 10:05  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/31/24				Preparation Date: 07/29/24
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	0.2	0.1	mg/L	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/26/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 99.1		86	117
5035A/8260B	d8-Toluene (Surr)	%R: 100.7		90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 100.8		77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 69.5		59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 84		45	112
8270C	2-Fluorophenol (Surr)	%R: 69		41	84
8270C	d14-Terphenyl (Surr)	%R: 85		56	120
8270C	d5-Nitrobenzene (Surr)	%R: 88		35	105
8270C	Phenol-d5 (surr)	%R: 84		50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-82-01 (0-3)  
**Sample No:** 24-6106-029

**Date Collected:** 07/10/24  
**Time Collected:** 13:42  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/18/24				
Total Solids	84.46		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/18/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-82-01 (0-3)  
**Sample No:** 24-6106-029

**Date Collected:** 07/10/24  
**Time Collected:** 13:42  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/18/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/21/24				
Preparation Date: 07/17/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-82-01 (0-3)  
**Sample No:** 24-6106-029

**Date Collected:** 07/10/24  
**Time Collected:** 13:42  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/21/24		Preparation Date: 07/17/24		
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	
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	





**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-82-01 (0-3)  
**Sample No:** 24-6106-029

**Date Collected:** 07/10/24  
**Time Collected:** 13:42  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/21/24		Preparation Method <b>3540C</b>		
		Preparation Date: 07/17/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/25/24		Preparation Method <b>3050B</b>		
		Preparation Date: 07/24/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.3	1.0	mg/kg	
Barium	136	0.5	mg/kg	
Beryllium	1.0	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	6,210	50	mg/kg	
Chromium	21.5	0.5	mg/kg	
Cobalt	11.5	0.5	mg/kg	
Copper	22.8	0.5	mg/kg	
Iron	22,800	5.0	mg/kg	
Lead	29.4	0.5	mg/kg	
Magnesium	4,320	50	mg/kg	
Manganese	415	0.5	mg/kg	
Nickel	22.9	0.5	mg/kg	
Potassium	2,000	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	2,010	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	34.3	1.0	mg/kg	
Zinc	67.8	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/24/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/16/24 10:30				
pH @ 25°C, 1:2	8.20		Units	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-82-01 (0-3)  
**Sample No:** 24-6106-029

**Date Collected:** 07/10/24  
**Time Collected:** 13:42  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/22/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 07/25/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/25/24				
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	0.37	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/25/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/22/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 07/26/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/26/24				
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	0.077	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.060	0.005	mg/L	
Iron	66.7	0.1	mg/L	
Lead	0.029	0.005	mg/L	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-82-01 (0-3)  
**Sample No:** 24-6106-029

**Date Collected:** 07/10/24  
**Time Collected:** 13:42  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/26/24		Preparation Date: 07/26/24		
Manganese	0.36	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	0.2	0.1	mg/L	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/25/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	101.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	103.1	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	110.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	61.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	76	45	112
8270C	2-Fluorophenol (Surr)	%R:	55.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	93	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	73	35	105
8270C	Phenol-d5 (surr)	%R:	74.5	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-82-01 (3-6)  
**Sample No:** 24-6106-030

**Date Collected:** 07/10/24  
**Time Collected:** 13:47  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/18/24				
Total Solids	82.40		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/18/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-82-01 (3-6)  
**Sample No:** 24-6106-030

**Date Collected:** 07/10/24  
**Time Collected:** 13:47  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/18/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/21/24				
Preparation Date: 07/17/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-82-01 (3-6)  
**Sample No:** 24-6106-030

**Date Collected:** 07/10/24  
**Time Collected:** 13:47  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/21/24		Preparation Date: 07/17/24		
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-82-01 (3-6)  
**Sample No:** 24-6106-030

**Date Collected:** 07/10/24  
**Time Collected:** 13:47  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/21/24		Preparation Method 3540C		
		Preparation Date: 07/17/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/26/24		Preparation Method 3050B		
		Preparation Date: 07/25/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.6	1.0	mg/kg	
Barium	71.3	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	0.6	0.5	mg/kg	
Calcium	61,300	50	mg/kg	
Chromium	18.3	0.5	mg/kg	
Cobalt	7.5	0.5	mg/kg	
Copper	18.6	0.5	mg/kg	
Iron	18,700	5.0	mg/kg	
Lead	11.8	0.5	mg/kg	
Magnesium	18,900	50	mg/kg	
Manganese	246	0.5	mg/kg	
Nickel	23.8	0.5	mg/kg	
Potassium	1,560	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	1,690	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	24.2	1.0	mg/kg	
Zinc	37.4	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/25/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/16/24 10:30				
pH @ 25°C, 1:2	8.85		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-82-01 (3-6)  
**Sample No:** 24-6106-030

**Date Collected:** 07/10/24  
**Time Collected:** 13:47  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**  
 Analysis Date: 07/22/24  
 TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C**  
 Analysis Date: 07/25/24  
**Preparation Method 3010A**  
 Preparation Date: 07/25/24

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	3.67	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: 07/25/24  
 Mercury < 0.0005 0.0005 mg/L

**SPLP Extraction Method: 1312**  
 Analysis Date: 07/22/24  
 SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C**  
 Analysis Date: 07/29/24  
**Preparation Method 3010A**  
 Preparation Date: 07/26/24

Arsenic	0.015	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	0.061	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.054	0.005	mg/L	
Iron	56.4	0.1	mg/L	
Lead	0.021	0.005	mg/L	





**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-82-01 (3-6)  
**Sample No:** 24-6106-030

**Date Collected:** 07/10/24  
**Time Collected:** 13:47  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/29/24		Preparation Date: 07/26/24		
Manganese	0.36	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	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/25/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	101.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	103.3	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	110.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	77	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	79	45	112
8270C	2-Fluorophenol (Surr)	%R:	77.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	105	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	86	35	105
8270C	Phenol-d5 (surr)	%R:	93	50	100



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** DUP-06  
**Sample No:** 24-6106-034

**Date Collected:** 07/10/24  
**Time Collected:** 9:00  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/18/24				
Total Solids	83.62		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/19/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** DUP-06  
**Sample No:** 24-6106-034

**Date Collected:** 07/10/24  
**Time Collected:** 9:00  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/19/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/24/24				
Preparation Date: 07/22/24				
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** DUP-06  
**Sample No:** 24-6106-034

**Date Collected:** 07/10/24  
**Time Collected:** 9:00  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/24/24		Preparation Date: 07/22/24		
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** DUP-06  
**Sample No:** 24-6106-034

**Date Collected:** 07/10/24  
**Time Collected:** 9:00  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/24/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/22/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/26/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 07/25/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.8	1.0	mg/kg	
Barium	133	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	0.6	0.5	mg/kg	
Calcium	4,270	50	mg/kg	
Chromium	23.9	0.5	mg/kg	
Cobalt	12.8	0.5	mg/kg	
Copper	27.5	0.5	mg/kg	
Iron	25,600	5.0	mg/kg	
Lead	24.0	0.5	mg/kg	
Magnesium	4,250	50	mg/kg	
Manganese	435	0.5	mg/kg	
Nickel	27.3	0.5	mg/kg	
Potassium	1,880	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	2,090	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	37.6	1.0	mg/kg	
Zinc	63.1	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/25/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/16/24 10:30				
pH @ 25°C, 1:2	8.17		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** DUP-06  
**Sample No:** 24-6106-034

**Date Collected:** 07/10/24  
**Time Collected:** 9:00  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/22/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 07/25/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/25/24				
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	0.35	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/25/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/22/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 07/29/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/26/24				
Arsenic	0.015	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.006	0.004	mg/L	
Cadmium	0.005	0.005	mg/L	
Chromium	0.149	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.121	0.005	mg/L	
Iron	132	0.1	mg/L	
Lead	0.051	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** DUP-06  
**Sample No:** 24-6106-034

**Date Collected:** 07/10/24  
**Time Collected:** 9:00  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/29/24		Preparation Date: 07/26/24		
Manganese	0.59	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	0.3	0.1	mg/L	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/25/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.9	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.5	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	99.8	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	67	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	80	45	112
8270C	2-Fluorophenol (Surr)	%R:	54	41	84
8270C	d14-Terphenyl (Surr)	%R:	98	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	75	35	105
8270C	Phenol-d5 (surr)	%R:	74	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-83-01 (0-3)  
**Sample No:** 24-6140-019

**Date Collected:** 07/12/24  
**Time Collected:** 9:14  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/18/24				
Total Solids	81.37		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/19/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-83-01 (0-3)  
**Sample No:** 24-6140-019

**Date Collected:** 07/12/24  
**Time Collected:** 9:14  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/19/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/25/24				
Preparation Date: 07/18/24				
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	203	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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-83-01 (0-3)  
**Sample No:** 24-6140-019

**Date Collected:** 07/12/24  
**Time Collected:** 9:14  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/25/24		Preparation Date: 07/18/24		
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	442	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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-83-01 (0-3)  
**Sample No:** 24-6140-019

**Date Collected:** 07/12/24  
**Time Collected:** 9:14  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/25/24		Preparation Method 3540C		
		Preparation Date: 07/18/24		
Pyrene	378	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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/26/24		Preparation Method 3050B		
		Preparation Date: 07/25/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.6	1.0	mg/kg	
Barium	55.2	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	0.7	0.5	mg/kg	
Calcium	8,450	50	mg/kg	
Chromium	17.2	0.5	mg/kg	
Cobalt	6.7	0.5	mg/kg	
Copper	30.6	0.5	mg/kg	
Iron	15,400	5.0	mg/kg	
Lead	60.0	0.5	mg/kg	
Magnesium	6,030	50	mg/kg	
Manganese	105	0.5	mg/kg	
Nickel	23.1	0.5	mg/kg	
Potassium	1,740	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	3,810	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	24.7	1.0	mg/kg	
Zinc	79.4	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/25/24				
Mercury	0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/17/24 11:30				
pH @ 25°C, 1:2	8.74		Units	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-83-01 (0-3)  
**Sample No:** 24-6140-019

**Date Collected:** 07/12/24  
**Time Collected:** 9:14  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/23/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 07/30/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/29/24				
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	0.81	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/26/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/23/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 07/31/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/29/24				
Arsenic	0.022	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	0.069	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.061	0.005	mg/L	
Iron	56.8	0.1	mg/L	
Lead	0.159	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-83-01 (0-3)  
**Sample No:** 24-6140-019

**Date Collected:** 07/12/24  
**Time Collected:** 9:14  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/31/24		Preparation Date: 07/29/24		
Manganese	0.25	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	0.3	0.1	mg/L	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/26/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	100.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.2	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	100.6	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	74	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	87	45	112
8270C	2-Fluorophenol (Surr)	%R:	76	41	84
8270C	d14-Terphenyl (Surr)	%R:	98	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	89	35	105
8270C	Phenol-d5 (surr)	%R:	93	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** DUP-09  
**Sample No:** 24-6140-023

**Date Collected:** 07/12/24  
**Time Collected:** 10:00  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/18/24				
Total Solids	78.10		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/19/24				
Acetone	279	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	24.7	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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** DUP-09  
**Sample No:** 24-6140-023

**Date Collected:** 07/12/24  
**Time Collected:** 10:00  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/19/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/25/24				
Preparation Date: 07/18/24				
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	237	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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** DUP-09  
**Sample No:** 24-6140-023

**Date Collected:** 07/12/24  
**Time Collected:** 10:00  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/25/24		Preparation Date: 07/18/24		
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	594	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	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	378	330	ug/kg	
Phenol	< 330	330	ug/kg	





**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** DUP-09  
**Sample No:** 24-6140-023

**Date Collected:** 07/12/24  
**Time Collected:** 10:00  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/25/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/18/24		
Pyrene	477	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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/26/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 07/25/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.6	1.0	mg/kg	
Barium	124	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	0.5	0.5	mg/kg	
Calcium	8,130	50	mg/kg	
Chromium	19.4	0.5	mg/kg	
Cobalt	9.9	0.5	mg/kg	
Copper	21.2	0.5	mg/kg	
Iron	20,000	5.0	mg/kg	
Lead	42.3	0.5	mg/kg	
Magnesium	6,340	50	mg/kg	
Manganese	178	0.5	mg/kg	
Nickel	25.5	0.5	mg/kg	
Potassium	1,940	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	4,230	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	31.7	1.0	mg/kg	
Zinc	53.2	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/25/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/17/24 11:30				
pH @ 25°C, 1:2	7.96		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** DUP-09  
**Sample No:** 24-6140-023

**Date Collected:** 07/12/24  
**Time Collected:** 10:00  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**

Analysis Date: 07/23/24

TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A**

Analysis Date: 07/30/24

Preparation Date: 07/29/24

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	0.3	0.1	mg/L	
Lead	0.024	0.005	mg/L	
Manganese	2.24	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: 07/29/24

Mercury < 0.0005 0.0005 mg/L

**SPLP Extraction Method: 1312**

Analysis Date: 07/23/24

SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A**

Analysis Date: 07/31/24

Preparation Date: 07/29/24

Arsenic	0.016	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	0.106	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.055	0.005	mg/L	
Iron	88.6	0.1	mg/L	
Lead	0.056	0.005	mg/L	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** DUP-09  
**Sample No:** 24-6140-023

**Date Collected:** 07/12/24  
**Time Collected:** 10:00  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 07/31/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 07/29/24		
Manganese	0.52	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	0.2	0.1	mg/L	

<b>SPLP Mercury Method 1312</b> Analysis Date: 07/26/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.9	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.2	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	101.7	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	69.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	74	45	112
8270C	2-Fluorophenol (Surr)	%R:	64	41	84
8270C	d14-Terphenyl (Surr)	%R:	92	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	58	35	105
8270C	Phenol-d5 (surr)	%R:	80.5	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-83-01 (3-6)  
**Sample No:** 24-6140-020

**Date Collected:** 07/12/24  
**Time Collected:** 9:16  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/18/24				
Total Solids	82.21		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/19/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-83-01 (3-6)  
**Sample No:** 24-6140-020

**Date Collected:** 07/12/24  
**Time Collected:** 9:16  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/19/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/23/24				
Preparation Date: 07/18/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-83-01 (3-6)  
**Sample No:** 24-6140-020

**Date Collected:** 07/12/24  
**Time Collected:** 9:16  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/23/24		Preparation Date: 07/18/24		
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-83-01 (3-6)  
**Sample No:** 24-6140-020

**Date Collected:** 07/12/24  
**Time Collected:** 9:16  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/23/24		Preparation Method <b>3540C</b>		
		Preparation Date: 07/18/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/26/24		Preparation Method <b>3050B</b>		
		Preparation Date: 07/25/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.6	1.0	mg/kg	
Barium	75.4	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	0.5	0.5	mg/kg	
Calcium	25,700	50	mg/kg	
Chromium	18.6	0.5	mg/kg	
Cobalt	11.4	0.5	mg/kg	
Copper	35.5	0.5	mg/kg	
Iron	21,800	5.0	mg/kg	
Lead	14.8	0.5	mg/kg	
Magnesium	14,500	50	mg/kg	
Manganese	566	0.5	mg/kg	
Nickel	31.9	0.5	mg/kg	
Potassium	1,530	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	2,600	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	26.6	1.0	mg/kg	
Zinc	43.5	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/25/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/17/24 11:30				
pH @ 25°C, 1:2	8.48		Units	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-83-01 (3-6)  
**Sample No:** 24-6140-020

**Date Collected:** 07/12/24  
**Time Collected:** 9:16  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/23/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 07/30/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/29/24				
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	3.68	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/29/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/23/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 07/31/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/29/24				
Arsenic	0.014	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	0.069	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.059	0.005	mg/L	
Iron	61.0	0.1	mg/L	
Lead	0.030	0.005	mg/L	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-83-01 (3-6)  
**Sample No:** 24-6140-020

**Date Collected:** 07/12/24  
**Time Collected:** 9:16  
**Date Received:** 07/12/24  
**Date Reported:** 07/31/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/31/24		Preparation Date: 07/29/24		
Manganese	0.41	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	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/26/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	101	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	101	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	101	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	97.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	81	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	75.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	90	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	89	35 -	105
8270C	Phenol-d5 (surr)	%R:	80	50 -	100



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-84-01 (0-4)  
**Sample No:** 24-6142-003

**Date Collected:** 07/11/24  
**Time Collected:** 10:36  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/19/24				
Total Solids	74.08		%	

<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/19/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-84-01 (0-4)  
**Sample No:** 24-6142-003

**Date Collected:** 07/11/24  
**Time Collected:** 10:36  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/19/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/25/24				
Preparation Date: 07/18/24				
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-84-01 (0-4)  
**Sample No:** 24-6142-003

**Date Collected:** 07/11/24  
**Time Collected:** 10:36  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/25/24		Preparation Date: 07/18/24		
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-84-01 (0-4)  
**Sample No:** 24-6142-003

**Date Collected:** 07/11/24  
**Time Collected:** 10:36  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/25/24				Preparation Date: 07/18/24
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		<b>Preparation Method 3050B</b>
Analysis Date: 07/26/24				Preparation Date: 07/25/24
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.4	1.0	mg/kg	
Barium	96.1	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	0.7	0.5	mg/kg	
Calcium	30,300	50	mg/kg	
Chromium	18.0	0.5	mg/kg	
Cobalt	7.0	0.5	mg/kg	
Copper	26.6	0.5	mg/kg	
Iron	18,300	5.0	mg/kg	
Lead	54.3	0.5	mg/kg	
Magnesium	19,000	50	mg/kg	
Manganese	185	0.5	mg/kg	
Nickel	19.8	0.5	mg/kg	
Potassium	1,820	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	2,100	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	25.5	1.0	mg/kg	
Zinc	69.9	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/26/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/17/24 11:30				
pH @ 25°C, 1:2	8.01		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-84-01 (0-4)  
**Sample No:** 24-6142-003

**Date Collected:** 07/11/24  
**Time Collected:** 10:36  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/24/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/01/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/30/24				
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	0.010	0.005	mg/L	
Manganese	1.59	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/30/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/24/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/01/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/30/24				
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	0.049	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.040	0.005	mg/L	
Iron	41.3	0.1	mg/L	
Lead	0.065	0.005	mg/L	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-84-01 (0-4)  
**Sample No:** 24-6142-003

**Date Collected:** 07/11/24  
**Time Collected:** 10:36  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/01/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 07/30/24		
Manganese	0.24	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	0.2	0.1	mg/L	

<b>SPLP Mercury Method 1312</b> Analysis Date: 07/30/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.5	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.8	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	98.6	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	72.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	79	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	66.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	96	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	81	35 -	105
8270C	Phenol-d5 (surr)	%R:	85	50 -	100



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-84-01 (4-8)  
**Sample No:** 24-6142-004

**Date Collected:** 07/11/24  
**Time Collected:** 10:38  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/19/24				
Total Solids	79.31		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/19/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-84-01 (4-8)  
**Sample No:** 24-6142-004

**Date Collected:** 07/11/24  
**Time Collected:** 10:38  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/19/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/23/24				
Preparation Date: 07/18/24				
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-84-01 (4-8)  
**Sample No:** 24-6142-004

**Date Collected:** 07/11/24  
**Time Collected:** 10:38  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/23/24		Preparation Date: 07/18/24		
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-84-01 (4-8)  
**Sample No:** 24-6142-004

**Date Collected:** 07/11/24  
**Time Collected:** 10:38  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/23/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/18/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/26/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 07/25/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.5	1.0	mg/kg	
Barium	96.1	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	0.7	0.5	mg/kg	
Calcium	2,940	50	mg/kg	
Chromium	24.1	0.5	mg/kg	
Cobalt	11.4	0.5	mg/kg	
Copper	26.4	0.5	mg/kg	
Iron	26,100	5.0	mg/kg	
Lead	11.4	0.5	mg/kg	
Magnesium	5,380	50	mg/kg	
Manganese	358	0.5	mg/kg	
Nickel	34.5	0.5	mg/kg	
Potassium	1,790	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	1,990	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	31.7	1.0	mg/kg	
Zinc	58.8	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/26/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/17/24 11:30				
pH @ 25°C, 1:2	8.25		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-84-01 (4-8)  
**Sample No:** 24-6142-004

**Date Collected:** 07/11/24  
**Time Collected:** 10:38  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/24/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/01/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/30/24				
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	0.3	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.33	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/30/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/24/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/01/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/30/24				
Arsenic	0.024	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.005	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.132	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.116	0.005	mg/L	
Iron	121	0.1	mg/L	
Lead	0.042	0.005	mg/L	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-84-01 (4-8)  
**Sample No:** 24-6142-004

**Date Collected:** 07/11/24  
**Time Collected:** 10:38  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 08/01/24		Preparation Date: 07/30/24		
Manganese	1.23	0.10	mg/L	
Nickel	0.2	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.2	0.1	mg/L	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/30/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	100.6	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.3	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	101.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	102.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	75	45	112
8270C	2-Fluorophenol (Surr)	%R:	70	41	84
8270C	d14-Terphenyl (Surr)	%R:	96	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	78	35	105
8270C	Phenol-d5 (surr)	%R:	77	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-84-02 (0-4)  
**Sample No:** 24-6142-005

**Date Collected:** 07/11/24  
**Time Collected:** 10:23  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/19/24				
Total Solids	83.82		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/19/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-84-02 (0-4)  
**Sample No:** 24-6142-005

**Date Collected:** 07/11/24  
**Time Collected:** 10:23  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/19/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/25/24				
Preparation Date: 07/18/24				
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	93	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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-84-02 (0-4)  
**Sample No:** 24-6142-005

**Date Collected:** 07/11/24  
**Time Collected:** 10:23  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/25/24		Preparation Date: 07/18/24		
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	
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	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-84-02 (0-4)  
**Sample No:** 24-6142-005

**Date Collected:** 07/11/24  
**Time Collected:** 10:23  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/25/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/18/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/26/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 07/25/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	9.8	1.0	mg/kg	
Barium	74.4	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	0.8	0.5	mg/kg	
Calcium	26,100	50	mg/kg	
Chromium	20.6	0.5	mg/kg	
Cobalt	13.4	0.5	mg/kg	
Copper	34.5	0.5	mg/kg	
Iron	24,600	5.0	mg/kg	
Lead	60.1	0.5	mg/kg	
Magnesium	16,100	50	mg/kg	
Manganese	599	0.5	mg/kg	
Nickel	33.0	0.5	mg/kg	
Potassium	1,900	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	1,340	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	28.7	1.0	mg/kg	
Zinc	82.6	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/26/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/17/24 11:30				
pH @ 25°C, 1:2	8.64		Units	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-84-02 (0-4)  
**Sample No:** 24-6142-005

**Date Collected:** 07/11/24  
**Time Collected:** 10:23  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/24/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/01/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/30/24				
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	0.006	0.005	mg/L	
Manganese	0.46	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/30/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/24/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/01/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/30/24				
Arsenic	0.039	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	0.105	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.097	0.005	mg/L	
Iron	103	0.1	mg/L	
Lead	0.113	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-84-02 (0-4)  
**Sample No:** 24-6142-005

**Date Collected:** 07/11/24  
**Time Collected:** 10:23  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 08/01/24				Preparation Date: 07/30/24
Manganese	0.58	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	0.3	0.1	mg/L	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/30/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	100.6	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.6	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	101.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	70	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	87	45	112
8270C	2-Fluorophenol (Surr)	%R:	65	41	84
8270C	d14-Terphenyl (Surr)	%R:	98	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	87	35	105
8270C	Phenol-d5 (surr)	%R:	85.5	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-84-02 (4-8)  
**Sample No:** 24-6142-006

**Date Collected:** 07/11/24  
**Time Collected:** 10:25  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/19/24				
Total Solids	79.97		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/19/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-84-02 (4-8)  
**Sample No:** 24-6142-006

**Date Collected:** 07/11/24  
**Time Collected:** 10:25  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/19/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/23/24				
Preparation Date: 07/18/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-84-02 (4-8)  
**Sample No:** 24-6142-006

**Date Collected:** 07/11/24  
**Time Collected:** 10:25  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/23/24		Preparation Date: 07/18/24		
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-84-02 (4-8)  
**Sample No:** 24-6142-006

**Date Collected:** 07/11/24  
**Time Collected:** 10:25  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/23/24		Preparation Method <b>3540C</b>		
		Preparation Date: 07/18/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/26/24		Preparation Method <b>3050B</b>		
		Preparation Date: 07/25/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.1	1.0	mg/kg	
Barium	88.5	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	0.5	0.5	mg/kg	
Calcium	2,360	50	mg/kg	
Chromium	20.8	0.5	mg/kg	
Cobalt	11.5	0.5	mg/kg	
Copper	13.2	0.5	mg/kg	
Iron	23,800	5.0	mg/kg	
Lead	14.0	0.5	mg/kg	
Magnesium	4,540	50	mg/kg	
Manganese	324	0.5	mg/kg	
Nickel	30.5	0.5	mg/kg	
Potassium	1,400	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	1,910	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	28.3	1.0	mg/kg	
Zinc	59.3	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/26/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/17/24 11:30				
pH @ 25°C, 1:2	8.30		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-84-02 (4-8)  
**Sample No:** 24-6142-006

**Date Collected:** 07/11/24  
**Time Collected:** 10:25  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/24/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/01/24				
<b>Preparation Method 3010A</b> Preparation Date: 07/30/24				
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	0.3	0.1	mg/L	
Lead	0.007	0.005	mg/L	
Manganese	4.75	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/30/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/24/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/01/24				
<b>Preparation Method 3010A</b> Preparation Date: 07/30/24				
Arsenic	0.019	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	0.107	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.065	0.005	mg/L	
Iron	108	0.1	mg/L	
Lead	0.048	0.005	mg/L	





**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-84-02 (4-8)  
**Sample No:** 24-6142-006

**Date Collected:** 07/11/24  
**Time Collected:** 10:25  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 08/01/24		Preparation Date: 07/30/24		
Manganese	1.13	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	0.2	0.1	mg/L	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/30/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	101.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.3	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	101.9	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	107.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	86	45	112
8270C	2-Fluorophenol (Surr)	%R:	78.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	96	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	91	35	105
8270C	Phenol-d5 (surr)	%R:	82.5	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-84-04 (0-4)  
**Sample No:** 24-6142-009

**Date Collected:** 07/11/24  
**Time Collected:** 10:00  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/19/24				
Total Solids	87.76		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/19/24				
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	12.1	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	5.7	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-84-04 (0-4)  
**Sample No:** 24-6142-009

**Date Collected:** 07/11/24  
**Time Collected:** 10:00  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/19/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/25/24				
Preparation Date: 07/19/24				
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	165	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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-84-04 (0-4)  
**Sample No:** 24-6142-009

**Date Collected:** 07/11/24  
**Time Collected:** 10:00  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/25/24		Preparation Date: 07/19/24		
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-84-04 (0-4)  
**Sample No:** 24-6142-009

**Date Collected:** 07/11/24  
**Time Collected:** 10:00  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/25/24		Preparation Method <b>3540C</b>		
		Preparation Date: 07/19/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/26/24		Preparation Method <b>3050B</b>		
		Preparation Date: 07/25/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.8	1.0	mg/kg	
Barium	66.3	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	1.7	0.5	mg/kg	
Calcium	45,400	50	mg/kg	
Chromium	15.4	0.5	mg/kg	
Cobalt	7.1	0.5	mg/kg	
Copper	26.7	0.5	mg/kg	
Iron	18,100	5.0	mg/kg	
Lead	59.8	0.5	mg/kg	
Magnesium	28,500	50	mg/kg	
Manganese	321	0.5	mg/kg	
Nickel	20.8	0.5	mg/kg	
Potassium	1,620	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	305	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	22.6	1.0	mg/kg	
Zinc	65.8	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/26/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/17/24 11:30				
pH @ 25°C, 1:2	8.11		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-84-04 (0-4)  
**Sample No:** 24-6142-009

**Date Collected:** 07/11/24  
**Time Collected:** 10:00  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**  
 Analysis Date: 07/24/24

TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A**  
 Analysis Date: 08/01/24 Preparation Date: 07/30/24

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	0.30	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: 07/30/24

Mercury < 0.0005 0.0005 mg/L

**SPLP Extraction Method: 1312**  
 Analysis Date: 07/24/24

SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A**  
 Analysis Date: 08/01/24 Preparation Date: 07/30/24

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	0.030	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.032	0.005	mg/L	
Iron	33.0	0.1	mg/L	
Lead	0.039	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-84-04 (0-4)  
**Sample No:** 24-6142-009

**Date Collected:** 07/11/24  
**Time Collected:** 10:00  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 08/01/24		Preparation Date: 07/30/24		
Manganese	0.16	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	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/30/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	95.4	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	102.2	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	97.5	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	71.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	83	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	71	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	102	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	87	35 -	105
8270C	Phenol-d5 (surr)	%R:	88.5	50 -	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-85-03 (0-3)  
**Sample No:** 24-6142-015

**Date Collected:** 07/11/24  
**Time Collected:** 12:47  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/19/24				
Total Solids	76.09		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/19/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-85-03 (0-3)  
**Sample No:** 24-6142-015

**Date Collected:** 07/11/24  
**Time Collected:** 12:47  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/19/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/23/24				
Preparation Date: 07/19/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-85-03 (0-3)  
**Sample No:** 24-6142-015

**Date Collected:** 07/11/24  
**Time Collected:** 12:47  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/23/24		Preparation Date: 07/19/24		
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-85-03 (0-3)  
**Sample No:** 24-6142-015

**Date Collected:** 07/11/24  
**Time Collected:** 12:47  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/23/24		Preparation Method 3540C		
		Preparation Date: 07/19/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/29/24		Preparation Method 3050B		
		Preparation Date: 07/25/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.4	1.0	mg/kg	
Barium	93.8	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	0.8	0.5	mg/kg	
Calcium	70,900	50	mg/kg	
Chromium	16.5	0.5	mg/kg	
Cobalt	7.9	0.5	mg/kg	
Copper	28.2	0.5	mg/kg	
Iron	18,000	5.0	mg/kg	
Lead	147	0.5	mg/kg	
Magnesium	43,600	50	mg/kg	
Manganese	443	0.5	mg/kg	
Nickel	17.6	0.5	mg/kg	
Potassium	1,950	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	1,440	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	23.2	1.0	mg/kg	
Zinc	203	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/26/24				
Mercury	0.07	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/17/24 11:30				
pH @ 25°C, 1:2	8.09		Units	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-85-03 (0-3)  
**Sample No:** 24-6142-015

**Date Collected:** 07/11/24  
**Time Collected:** 12:47  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/24/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/01/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/30/24				
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	0.006	0.005	mg/L	
Manganese	0.61	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	0.2	0.1	mg/L	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/30/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/24/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/01/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/30/24				
Arsenic	0.012	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	0.059	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.061	0.005	mg/L	
Iron	48.3	0.1	mg/L	
Lead	0.252	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-85-03 (0-3)  
**Sample No:** 24-6142-015

**Date Collected:** 07/11/24  
**Time Collected:** 12:47  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 08/01/24		Preparation Date: 07/30/24		
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	0.9	0.1	mg/L	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/30/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.6	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	97.5	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	103	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	88	45	112
8270C	2-Fluorophenol (Surr)	%R:	66.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	100	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	83	35	105
8270C	Phenol-d5 (surr)	%R:	77.5	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-85-03 (3-5)  
**Sample No:** 24-6142-016

**Date Collected:** 07/11/24  
**Time Collected:** 12:49  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/19/24				
Total Solids	87.13		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/19/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-85-03 (3-5)  
**Sample No:** 24-6142-016

**Date Collected:** 07/11/24  
**Time Collected:** 12:49  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/19/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/23/24				
Preparation Date: 07/19/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-85-03 (3-5)  
**Sample No:** 24-6142-016

**Date Collected:** 07/11/24  
**Time Collected:** 12:49  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/23/24		Preparation Date: 07/19/24		
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	
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	





**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-85-03 (3-5)  
**Sample No:** 24-6142-016

**Date Collected:** 07/11/24  
**Time Collected:** 12:49  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/23/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/19/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/29/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 07/25/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.6	1.0	mg/kg	
Barium	36.2	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	100,000	50	mg/kg	
Chromium	12.5	0.5	mg/kg	
Cobalt	5.6	0.5	mg/kg	
Copper	11.5	0.5	mg/kg	
Iron	10,800	5.0	mg/kg	
Lead	7.0	0.5	mg/kg	
Magnesium	30,700	50	mg/kg	
Manganese	240	0.5	mg/kg	
Nickel	14.7	0.5	mg/kg	
Potassium	1,490	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	901	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	16.8	1.0	mg/kg	
Zinc	23.2	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/26/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/17/24 11:30				
pH @ 25°C, 1:2	8.78		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-85-03 (3-5)  
**Sample No:** 24-6142-016

**Date Collected:** 07/11/24  
**Time Collected:** 12:49  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/24/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/01/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/30/24				
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	2.10	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/30/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/24/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/01/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/30/24				
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	0.029	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.020	0.005	mg/L	
Iron	22.6	0.1	mg/L	
Lead	0.008	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-85-03 (3-5)  
**Sample No:** 24-6142-016

**Date Collected:** 07/11/24  
**Time Collected:** 12:49  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 08/01/24				Preparation Date: 07/30/24
Manganese	0.17	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	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/30/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	94.7	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	105.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	83	45	112
8270C	2-Fluorophenol (Surr)	%R:	77	41	84
8270C	d14-Terphenyl (Surr)	%R:	98	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	87	35	105
8270C	Phenol-d5 (surr)	%R:	83	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-86-01 (0-4)  
**Sample No:** 24-6142-019

**Date Collected:** 07/11/24  
**Time Collected:** 12:00  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/19/24				
Total Solids	77.99		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/19/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-86-01 (0-4)  
**Sample No:** 24-6142-019

**Date Collected:** 07/11/24  
**Time Collected:** 12:00  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/19/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/25/24				
Preparation Date: 07/19/24				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	745	330	ug/kg	
Anthracene	626	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	1,400	330	ug/kg	
Benzo(a)pyrene	1,250	90	ug/kg	
Benzo(b)fluoranthene	1,530	330	ug/kg	
Benzo(k)fluoranthene	614	330	ug/kg	
Benzo(ghi)perylene	760	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	1,340	330	ug/kg	
Dibenzo(a,h)anthracene	205	90	ug/kg	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-86-01 (0-4)  
**Sample No:** 24-6142-019

**Date Collected:** 07/11/24  
**Time Collected:** 12:00  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/25/24		Preparation Date: 07/19/24		
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	2,820	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	821	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	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	2,120	330	ug/kg	
Phenol	< 330	330	ug/kg	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-86-01 (0-4)  
**Sample No:** 24-6142-019

**Date Collected:** 07/11/24  
**Time Collected:** 12:00  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/25/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/19/24		
Pyrene	2,520	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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/29/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 07/25/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.8	1.0	mg/kg	
Barium	99.0	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	42,800	50	mg/kg	
Chromium	20.6	0.5	mg/kg	
Cobalt	8.8	0.5	mg/kg	
Copper	23.0	0.5	mg/kg	
Iron	17,800	5.0	mg/kg	
Lead	75.0	0.5	mg/kg	
Magnesium	25,800	50	mg/kg	
Manganese	313	0.5	mg/kg	
Nickel	21.7	0.5	mg/kg	
Potassium	2,070	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	1,850	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	29.3	1.0	mg/kg	
Zinc	89.6	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/26/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/17/24 11:30				
pH @ 25°C, 1:2	8.75		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-86-01 (0-4)  
**Sample No:** 24-6142-019

**Date Collected:** 07/11/24  
**Time Collected:** 12:00  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**

Analysis Date: 07/24/24

TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A**

Analysis Date: 08/01/24

Preparation Date: 07/30/24

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	0.006	0.005	mg/L	
Manganese	0.11	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: 07/30/24

Mercury < 0.0005 0.0005 mg/L

**SPLP Extraction Method: 1312**

Analysis Date: 07/24/24

SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A**

Analysis Date: 08/01/24

Preparation Date: 07/30/24

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	0.055	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.048	0.005	mg/L	
Iron	45.2	0.1	mg/L	
Lead	0.183	0.005	mg/L	





**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-86-01 (0-4)  
**Sample No:** 24-6142-019

**Date Collected:** 07/11/24  
**Time Collected:** 12:00  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/01/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 07/30/24		
Manganese	0.34	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	0.3	0.1	mg/L	

<b>SPLP Mercury Method 1312</b> Analysis Date: 07/31/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.9	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.3	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	96.8	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	73.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	92	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	76.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	99	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	92	35 -	105
8270C	Phenol-d5 (surr)	%R:	89.5	50 -	100



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-87-03 (0-5)  
**Sample No:** 24-6142-022

**Date Collected:** 07/11/24  
**Time Collected:** 10:43  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/19/24				
Total Solids	85.67		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/19/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-87-03 (0-5)  
**Sample No:** 24-6142-022

**Date Collected:** 07/11/24  
**Time Collected:** 10:43  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/19/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/25/24		Preparation Date: 07/19/24		
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	132	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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-87-03 (0-5)  
**Sample No:** 24-6142-022

**Date Collected:** 07/11/24  
**Time Collected:** 10:43  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/25/24		Preparation Date: 07/19/24		
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-87-03 (0-5)  
**Sample No:** 24-6142-022

**Date Collected:** 07/11/24  
**Time Collected:** 10:43  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>				
<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>		
Analysis Date: 07/25/24		Preparation Date: 07/19/24		
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	
<b>Total Metals</b>				
<b>Method: 6010C</b>		<b>Preparation Method 3050B</b>		
Analysis Date: 07/29/24		Preparation Date: 07/25/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.3	1.0	mg/kg	
Barium	72.6	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	46,200	50	mg/kg	
Chromium	18.7	0.5	mg/kg	
Cobalt	9.1	0.5	mg/kg	
Copper	29.7	0.5	mg/kg	
Iron	19,200	5.0	mg/kg	
Lead	54.8	0.5	mg/kg	
Magnesium	26,700	50	mg/kg	
Manganese	337	0.5	mg/kg	
Nickel	24.3	0.5	mg/kg	
Potassium	1,710	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	902	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	24.7	1.0	mg/kg	
Zinc	69.4	1.0	mg/kg	
<b>Total Mercury</b>				
<b>Method: 7471B</b>				
Analysis Date: 07/26/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>				
<b>Method: 9045D</b>				
Analysis Date: 07/17/24 11:30				
pH @ 25°C, 1:2	8.84		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-87-03 (0-5)  
**Sample No:** 24-6142-022

**Date Collected:** 07/11/24  
**Time Collected:** 10:43  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/25/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/01/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/31/24				
Arsenic	< 0.010	0.010	mg/L	
Barium	1.2	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	0.72	0.10	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	0.011	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/31/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/25/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/01/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/31/24				
Arsenic	0.013	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	0.044	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.044	0.005	mg/L	
Iron	49.5	0.1	mg/L	
Lead	0.030	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-87-03 (0-5)  
**Sample No:** 24-6142-022

**Date Collected:** 07/11/24  
**Time Collected:** 10:43  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/01/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 07/31/24		
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	

<b>SPLP Mercury Method 1312</b> Analysis Date: 07/31/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.8	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.8	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	95.9	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	67	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	85	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	64.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	99	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	81	35 -	105
8270C	Phenol-d5 (surr)	%R:	84.5	50 -	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-88-01 (0-5)  
**Sample No:** 24-6142-023

**Date Collected:** 07/11/24  
**Time Collected:** 11:50  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/19/24				
Total Solids	77.96		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-88-01 (0-5)  
**Sample No:** 24-6142-023

**Date Collected:** 07/11/24  
**Time Collected:** 11:50  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/22/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/25/24				
Preparation Date: 07/19/24				
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	240	90	ug/kg	
Benzo(b)fluoranthene	366	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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-88-01 (0-5)  
**Sample No:** 24-6142-023

**Date Collected:** 07/11/24  
**Time Collected:** 11:50  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/25/24		Preparation Date: 07/19/24		
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	416	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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-88-01 (0-5)  
**Sample No:** 24-6142-023

**Date Collected:** 07/11/24  
**Time Collected:** 11:50  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/25/24		Preparation Method 3540C		
		Preparation Date: 07/19/24		
Pyrene	392	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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/29/24		Preparation Method 3050B		
		Preparation Date: 07/25/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.3	1.0	mg/kg	
Barium	104	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	7,940	50	mg/kg	
Chromium	19.3	0.5	mg/kg	
Cobalt	9.7	0.5	mg/kg	
Copper	26.9	0.5	mg/kg	
Iron	20,000	5.0	mg/kg	
Lead	75.1	0.5	mg/kg	
Magnesium	5,580	50	mg/kg	
Manganese	379	0.5	mg/kg	
Nickel	23.0	0.5	mg/kg	
Potassium	1,800	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	332	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	29.1	1.0	mg/kg	
Zinc	83.7	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/26/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/17/24 11:30				
pH @ 25°C, 1:2	7.87		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-88-01 (0-5)  
**Sample No:** 24-6142-023

**Date Collected:** 07/11/24  
**Time Collected:** 11:50  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/25/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/01/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/31/24				
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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/31/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/25/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/01/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/31/24				
Arsenic	0.021	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.005	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.132	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.130	0.005	mg/L	
Iron	128	0.1	mg/L	
Lead	0.058	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-88-01 (0-5)  
**Sample No:** 24-6142-023

**Date Collected:** 07/11/24  
**Time Collected:** 11:50  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/01/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 07/31/24		
Manganese	0.65	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	0.4	0.1	mg/L	

<b>SPLP Mercury Method 1312</b> Analysis Date: 07/31/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.6	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.3	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	101.2	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	74	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	81	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	72	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	105	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	85	35 -	105
8270C	Phenol-d5 (surr)	%R:	85	50 -	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-88-02 (0-5)  
**Sample No:** 24-6142-024

**Date Collected:** 07/11/24  
**Time Collected:** 11:55  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/19/24				
Total Solids	86.07		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-88-02 (0-5)  
**Sample No:** 24-6142-024

**Date Collected:** 07/11/24  
**Time Collected:** 11:55  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/25/24				
Preparation Date: 07/19/24				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	383	330	ug/kg	
Benzo(a)pyrene	399	90	ug/kg	
Benzo(b)fluoranthene	662	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	374	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	468	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-88-02 (0-5)  
**Sample No:** 24-6142-024

**Date Collected:** 07/11/24  
**Time Collected:** 11:55  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/25/24		Preparation Date: 07/19/24		
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	764	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	373	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	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	352	330	ug/kg	
Phenol	< 330	330	ug/kg	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-88-02 (0-5)  
**Sample No:** 24-6142-024

**Date Collected:** 07/11/24  
**Time Collected:** 11:55  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/25/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/19/24		
Pyrene	729	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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/29/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 07/25/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.3	1.0	mg/kg	
Barium	122	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	13,200	50	mg/kg	
Chromium	19.9	0.5	mg/kg	
Cobalt	9.8	0.5	mg/kg	
Copper	26.7	0.5	mg/kg	
Iron	19,600	5.0	mg/kg	
Lead	107	0.5	mg/kg	
Magnesium	8,280	50	mg/kg	
Manganese	426	0.5	mg/kg	
Nickel	27.6	0.5	mg/kg	
Potassium	1,980	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	1,190	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	29.3	1.0	mg/kg	
Zinc	119	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/26/24				
Mercury	0.08	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/17/24 11:30				
pH @ 25°C, 1:2	8.68		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-88-02 (0-5)  
**Sample No:** 24-6142-024

**Date Collected:** 07/11/24  
**Time Collected:** 11:55  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/25/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/01/24				
<b>Preparation Method 3010A</b> Preparation Date: 07/31/24				
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	0.012	0.005	mg/L	
Manganese	0.15	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/31/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/25/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/01/24				
<b>Preparation Method 3010A</b> Preparation Date: 07/31/24				
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	0.062	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.085	0.005	mg/L	
Iron	46.1	0.1	mg/L	
Lead	0.196	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-88-02 (0-5)  
**Sample No:** 24-6142-024

**Date Collected:** 07/11/24  
**Time Collected:** 11:55  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/01/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 07/31/24		
Manganese	0.21	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	0.3	0.1	mg/L	

<b>SPLP Mercury Method 1312</b> Analysis Date: 07/31/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.6	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.2	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	101.7	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	76.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	93	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	78	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	102	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	95	35 -	105
8270C	Phenol-d5 (surr)	%R:	94	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 39A 55th St (Contract: 60R50) Office Phone Number, if available: \_\_\_\_\_

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

FAU 1504 - 55th St. - US 12/20/45 to East Ave. (Sec. No. 0104WRS&N-11 / BDE Seq. No. 12403D / Proj. Job No. D-91-262-04)

City: Broadview State: IL Zip Code: 60155

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: 41.79042 Longitude: - 87.86868

(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: Jeff Williams

Email, if available: Jeff.Williams@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: Jeff Williams

Email, if available: Jeff.Williams@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 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 #24-5950, #24-6106, #24-6142, #24-6393, and #24-6328. 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:

Aug 29, 2017  
Date

  
P.E or L.P.G. Seal: JJR 8/29/17

**FAU 1504 – 55<sup>th</sup> St. (US 12/20/45 to East Ave.) Countryside, IL**  
**IDOT Contract No.: 60R50 / IDOT Project Job No.: D-91-262-04**  
**BDE Sequence No.: 12403D / Section No.: 0104WRS&N-11**  
**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):

<b>ISGS Site No.</b>
1560V3-19
1560V3-21
1560V3-23
1560V3-27
1560V3-39
1560V3-41
1560V3-50
1560V3-52
1560V3-76
1560V3-82
1560V3-87

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:

<b>ISGS Boring No.</b>	<b>Approximate Stationing</b>
1560V3-19-01	STA US 12/20/45: 206+00, 40 LT
1560V3-21-03	STA US 12/20/45: 205+00, 33 RT
1560V3-23-02	STA US 12/20/45: 204+50, 40 LT
1560V3-27-01	STA US 12/20/45: 202+44, 40 LT
1560V3-39-06	STA 55th St: 95+50, 32 RT
1560V3-41-01	STA 55th St: 96+32, 38 LT
1560V3-50-01	STA 55th St: 105+95, 43 LT
1560V3-52-01	STA 55th St: 106+98, 42 LT
1560V3-76-01	STA US 12/20/45: 197+47, 40 LT
1560V3-82-02	STA US 12/20/45: 194+52, 38 LT
1560V3-87-01	STA US 12/20/45: 188+70, 39 LT
1560V3-87-02	STA US 12/20/45: 189+43, 40 LT

LPC-663 (Page 1 of 7)  
 Unrestricted Soils for Reuse or Disposal at CCDD Facilities  
 FAU 1504 (55th Street)  
 Countryside, Cook County, Illinois  
 BDE Sequence No.: 12403D  
 PTB: 199-014/HH-2, Work Order No.: 39A

Boring ID	Soil Reference Concentrations <sup>a/</sup>	Soil Remediation Objective for Construction Workers <sup>b/</sup>		Soil Remediation Objective for Residential Exposure <sup>c/</sup>		1560V3-19-01	1560V3-21-03	1560V3-21-03
						(0-3)	(0-4)	(4-8)
Sample Depth, ft						7/9/2024	7/9/2024	7/9/2024
Sample Date								
Excavation Area(s) ID		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	1560V3-19	1560V3-21	
Parameter								
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	7.80	7.47	8.04
PID Readings (ppm)						<b>0.1</b>	0.0	0.0
<b>VOCs, mg/kg</b>								
<b>SVOCs, mg/kg</b>								
Benzo(a)pyrene	0.09 / 11.4* / 2.1	17	---	0.09	---	<0.09	<0.09	<0.09
<b>Total Metals, mg/kg</b>								
Arsenic	11.3 / 13	61	25,000	---	750	<b>6.8</b>	<b>5.9</b>	<b>5.4</b>
Barium	1,500	14,000	870,000	5,500	690,000	<b>65.5</b>	<b>76.8</b>	<b>48.6</b>
Beryllium	22	410	44,000	160	1,300	<b>0.8</b>	<b>0.6</b>	<b>0.5</b>
Cadmium	5.2	200	59,000	78	1,800	<b>0.7</b>	<b>1.2</b>	<b>0.6</b>
Calcium	---	---	---	---	---	<b>2990</b>	<b>34200</b>	<b>50400</b>
Chromium	21	4100	690	230	270	<b>23</b>	<b>20.6</b>	<b>18.1</b>
Cobalt	20	12000	---	4,700	---	<b>12.7</b>	<b>9.1</b>	<b>10.7</b>
Copper	2,900	8,200	---	2,900	---	<b>24.6</b>	<b>31.1</b>	<b>22.7</b>
Iron	15,000 / 15,900	---	---	---	---	<b>26800</b>	<b>21100</b>	<b>20000</b>
Lead	107	700	---	400	---	<b>20.8</b>	<b>122</b>	<b>10.8</b>
Magnesium	325,000	730,000	---	325,000	---	<b>4970</b>	<b>18500</b>	<b>21600</b>
Manganese	630 / 636	4100	8,700	1,600	---	<b>355</b>	<b>288</b>	<b>340</b>
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	<b>33.5</b>	<b>28.5</b>	<b>28.3</b>
Potassium	---	---	---	---	---	<b>1980</b>	<b>1820</b>	<b>2080</b>
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	<b>2380</b>	<b>560</b>	<b>315</b>
Vanadium	550	1400	---	550	---	<b>30.1</b>	<b>26.2</b>	<b>21.9</b>
Zinc	5,100	61,000	---	23,000	---	<b>58.3</b>	<b>141</b>	<b>44.3</b>
<b>TCLP Metals, mg/L</b>		Class I Groundwater <sup>d/</sup>						
Chromium			0.1			<0.005	<0.005	<0.005
Iron			5			<0.1	<0.1	<0.1
Lead			0.0075			<0.005	<b>0.019</b>	<0.005
Manganese			0.15			<0.10	<b>4.63</b>	<b>0.86</b>
Selenium			0.05			<0.010	<0.010	<0.010
Zinc			5			<0.1	<0.1	<0.1
<b>SPLP Metals, mg/L</b>		Class I Groundwater <sup>d/</sup>						
Arsenic			0.05			<b>0.046</b>	<0.010	<0.010
Barium			2			<b>2</b>	<1.0	<1.0
Beryllium			0.004			<b>0.009</b>	<0.004	<0.004
Cadmium			0.005			<b>0.006</b>	<0.005	<0.005
Chromium			0.1			<b>0.357</b>	<b>0.008</b>	<b>0.03</b>
Copper			0.65			<b>0.299</b>	<0.005	<b>0.028</b>
Iron			5			<b>319</b>	<b>2.7</b>	<b>26.4</b>
Lead			0.0075			<b>0.146</b>	<0.005	<b>0.01</b>
Manganese			0.15			<b>1.27</b>	<0.10	<b>0.14</b>
Mercury			0.002			<0.0005	<0.0005	<0.0005
Nickel			0.1			<b>0.4</b>	<0.1	<0.1
Selenium			0.05			<b>0.014</b>	<0.010	<0.010
Zinc			5			<b>0.8</b>	<0.1	<0.1

--- Refers to not applicable or value not available

<sup>a/</sup> 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.

<sup>b/</sup> Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

<sup>c/</sup> Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

<sup>d/</sup> 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.

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



LPC-663 (Page 2 of 7)  
 Unrestricted Soils for Reuse or Disposal at CCDD Facilities  
 FAU 1504 (55th Street)  
 Countryside, Cook County, Illinois  
 BDE Sequence No.: 12403D  
 PTB: 199-014/HH-2, Work Order No.: 39A

Boring ID	Soil Reference Concentrations <sup>a/</sup>	Soil Remediation Objective for Construction Workers <sup>b/</sup>		Soil Remediation Objective for Residential Exposure <sup>c/</sup>		1560V3-23-02	1560V3-27-01	1560V3-39-06
						(0-5)	(0-5)	(0-3)
Sample Depth, ft						7/9/2024	7/9/2024	7/18/2024
Sample Date								
Excavation Area(s) ID		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	1560V3-23	1560V3-27	1560V3-39
<b>Parameter</b>								
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.06	7.86	8.26
PID Readings (ppm)						0.0	0.0	0.0
<b>VOCs, mg/kg</b>								
<b>SVOCs, mg/kg</b>								
Benzo(a)pyrene	0.09 / 11.4* / 2.1	17	---	0.09	---	<0.09	<0.09	<0.09
<b>Total Metals, mg/kg</b>								
Arsenic	11.3 / 13	61	25,000	---	750	<b>2.4</b>	<b>3.8</b>	<b>6</b>
Barium	1,500	14,000	870,000	5,500	690,000	<b>131</b>	<b>136</b>	<b>114</b>
Beryllium	22	410	44,000	160	1,300	<b>0.8</b>	<b>1</b>	<b>0.9</b>
Cadmium	5.2	200	59,000	78	1,800	<b>0.8</b>	<b>0.9</b>	<b>0.5</b>
Calcium	---	---	---	---	---	<b>3490</b>	<b>5460</b>	<b>3830</b>
Chromium	21	4100	690	230	270	<b>23.5</b>	<b>21.8</b>	<b>22.2</b>
Cobalt	20	12000	---	4,700	---	<b>10.6</b>	<b>8.7</b>	<b>17.6</b>
Copper	2,900	8,200	---	2,900	---	<b>22</b>	<b>19.7</b>	<b>22.9</b>
Iron	15,000 / 15,900	---	---	---	---	<b>21900</b>	<b>23500</b>	<b>24500</b>
Lead	107	700	---	400	---	<b>11.6</b>	<b>14.3</b>	<b>21.6</b>
Magnesium	325,000	730,000	---	325,000	---	<b>5470</b>	<b>5180</b>	<b>4050</b>
Manganese	630 / 636	4100	8,700	1,600	---	<b>203</b>	<b>226</b>	<b>698</b>
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	<b>30.5</b>	<b>24.6</b>	<b>30.4</b>
Potassium	---	---	---	---	---	<b>1440</b>	<b>1410</b>	<b>2080</b>
Silver	4.4	1000	---	390	---	<b>0.3</b>	<b>0.3</b>	<b>0.2</b>
Sodium	---	---	---	---	---	<b>505</b>	<b>984</b>	<b>1330</b>
Vanadium	550	1400	---	550	---	<b>27.8</b>	<b>33.1</b>	<b>34.3</b>
Zinc	5,100	61,000	---	23,000	---	<b>62.6</b>	<b>50.2</b>	<b>51.9</b>
<b>TCLP Metals, mg/L</b>								
Class I Groundwater <sup>d/</sup>								
Chromium			0.1			<0.005	<0.005	<0.005
Iron			5			<b>0.4</b>	<b>0.8</b>	<0.1
Lead			0.0075			<b>0.006</b>	<0.005	<0.005
Manganese			0.15			<b>1.69</b>	<b>2.35</b>	<0.10
Selenium			0.05			<0.010	<0.010	<0.010
Zinc			5			<0.1	<0.1	<0.1
<b>SPLP Metals, mg/L</b>								
Class I Groundwater <sup>d/</sup>								
Arsenic			0.05			<0.010	<0.010	<b>0.025</b>
Barium			2			<1.0	<1.0	<b>1.6</b>
Beryllium			0.004			<0.004	<0.004	<b>0.011</b>
Cadmium			0.005			<0.005	<0.005	<0.005
Chromium			0.1			<b>0.03</b>	<b>0.02</b>	<b>0.353</b>
Copper			0.65			<b>0.023</b>	<b>0.016</b>	<b>0.283</b>
Iron			5			<b>21</b>	<b>17.8</b>	<b>286</b>
Lead			0.0075			<b>0.01</b>	<b>0.007</b>	<b>0.097</b>
Manganese			0.15			<b>0.14</b>	<b>0.11</b>	<b>1.12</b>
Mercury			0.002			<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<b>0.3</b>
Selenium			0.05			<0.010	<0.010	<0.010
Zinc			5			<0.1	<0.1	<b>0.8</b>

--- Refers to not applicable or value not available

<sup>a/</sup> 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.

<sup>b/</sup> Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

<sup>c/</sup> Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

<sup>d/</sup> 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.

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

LPC-663 (Page 3 of 7)  
 Unrestricted Soils for Reuse or Disposal at CCDD Facilities  
 FAU 1504 (55th Street)  
 Countryside, Cook County, Illinois  
 BDE Sequence No.: 12403D  
 PTB: 199-014/HH-2, Work Order No.: 39A

Boring ID	Soil Reference Concentrations <sup>a/</sup>	Soil Remediation Objective for Construction Workers <sup>b/</sup>		Soil Remediation Objective for Residential Exposure <sup>c/</sup>		1560V3-39-06	1560V3-41-01	1560V3-41-01
						(3-6)	(0-4)	(4-8.5)
Sample Depth, ft						7/18/2024	7/18/2024	7/18/2024
Sample Date								
Excavation Area(s) ID		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	1560V3-39	1560V3-41	
<b>Parameter</b>								
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.17	8.54	8.20
PID Readings (ppm)						0.0	<b>0.1</b>	<b>0.3</b>
<b>VOCs, mg/kg</b>								
<b>SVOCs, mg/kg</b>								
Benzo(a)pyrene	0.09 / 11.4* / 2.1	17	---	0.09	---	<0.09	<0.09	<0.09
<b>Total Metals, mg/kg</b>								
Arsenic	11.3 / 13	61	25,000	---	750	<b>5.6</b>	<b>1.7</b>	<b>1.7</b>
Barium	1,500	14,000	870,000	5,500	690,000	<b>63.4</b>	<b>58.6</b>	<b>111</b>
Beryllium	22	410	44,000	160	1,300	<b>0.7</b>	<0.5	<b>0.5</b>
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<b>0.6</b>
Calcium	---	---	---	---	---	<b>3520</b>	<b>86000</b>	<b>99400</b>
Chromium	21	4100	690	230	270	<b>19</b>	<b>20.8</b>	<b>13.7</b>
Cobalt	20	12000	---	4,700	---	<b>5.7</b>	<b>6</b>	<b>7.5</b>
Copper	2,900	8,200	---	2,900	---	<b>21.4</b>	<b>17.9</b>	<b>27.1</b>
Iron	15,000 / 15,900	---	---	---	---	<b>18600</b>	<b>16600</b>	<b>11000</b>
Lead	107	700	---	400	---	<b>11.4</b>	<b>12.8</b>	<b>11</b>
Magnesium	325,000	730,000	---	325,000	---	<b>4720</b>	<b>21900</b>	<b>10600</b>
Manganese	630 / 636	4100	8,700	1,600	---	<b>88.7</b>	<b>216</b>	<b>285</b>
Mercury	0.89	61	0.1	23	10	<b>0.05</b>	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	<b>22.4</b>	<b>24.1</b>	<b>21.9</b>
Potassium	---	---	---	---	---	<b>1080</b>	<b>2340</b>	<b>1320</b>
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	<b>1370</b>	<b>495</b>	<b>569</b>
Vanadium	550	1400	---	550	---	<b>24.6</b>	<b>20.8</b>	<b>17.7</b>
Zinc	5,100	61,000	---	23,000	---	<b>52.7</b>	<b>43.5</b>	<b>56.8</b>
<b>TCLP Metals, mg/L</b>		Class I Groundwater <sup>d/</sup>						
Chromium			0.1			<0.005	<0.005	<b>0.007</b>
Iron			5			<0.1	<0.1	<0.1
Lead			0.0075			<0.005	<0.005	<0.005
Manganese			0.15			<0.10	<b>0.38</b>	<b>1.32</b>
Selenium			0.05			<0.010	<0.010	<0.010
Zinc			5			<0.1	<0.1	<0.1
<b>SPLP Metals, mg/L</b>		Class I Groundwater <sup>d/</sup>						
Arsenic			0.05			<b>0.097</b>	<0.010	<0.010
Barium			2			<b>1.5</b>	<1.0	<1.0
Beryllium			0.004			<b>0.015</b>	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005
Chromium			0.1			<b>0.44</b>	<b>0.033</b>	<b>0.016</b>
Copper			0.65			<b>0.39</b>	<b>0.026</b>	<b>0.023</b>
Iron			5			<b>358</b>	<b>27.3</b>	<b>13.4</b>
Lead			0.0075			<b>0.214</b>	<b>0.017</b>	<b>0.008</b>
Manganese			0.15			<b>1.05</b>	<b>0.15</b>	<0.10
Mercury			0.002			<b>0.0007</b>	<0.0005	<0.0005
Nickel			0.1			<b>0.4</b>	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010
Zinc			5			<b>1</b>	<0.1	<0.1

--- Refers to not applicable or value not available

<sup>a/</sup> 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.

<sup>b/</sup> Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

<sup>c/</sup> Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

<sup>d/</sup> 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.

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

LPC-663 (Page 4 of 7)  
 Unrestricted Soils for Reuse or Disposal at CCDD Facilities  
 FAU 1504 (55th Street)  
 Countryside, Cook County, Illinois  
 BDE Sequence No.: 12403D  
 PTB: 199-014/HH-2, Work Order No.: 39A

Boring ID	Soil Reference Concentrations <sup>a/</sup>	Soil Remediation Objective for Construction Workers <sup>b/</sup>		Soil Remediation Objective for Residential Exposure <sup>c/</sup>		1560V3-50-01	1560V3-50-01	1560V3-52-01
						(0-5)	(5-9.5)	(0-5)
Sample Depth, ft	Sample Date					7/17/2024	7/17/2024	7/17/2024
Excavation Area(s) ID		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	1560V3-50		1560V3-52
<b>Parameter</b>								
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	7.95	8.18	8.27
PID Readings (ppm)						0.0	<b>0.3</b>	<b>0.5</b>
<b>VOCs, mg/kg</b>								
<b>SVOCs, mg/kg</b>								
Benzo(a)pyrene	0.09 / 11.4* / 2.1	17	---	0.09	---	<0.09	<0.09	<b>0.09</b>
<b>Total Metals, mg/kg</b>								
Arsenic	11.3 / 13	61	25,000	---	750	<b>5.9</b>	<b>8.7</b>	<b>8.8</b>
Barium	1,500	14,000	870,000	5,500	690,000	<b>64.9</b>	<b>41.7</b>	<b>103</b>
Beryllium	22	410	44,000	160	1,300	<0.5	<b>0.6</b>	<b>0.8</b>
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	<b>54500</b>	<b>51600</b>	<b>9470</b>
Chromium	21	4100	690	230	270	<b>20.7</b>	<b>18.6</b>	<b>22.6</b>
Cobalt	20	12000	---	4,700	---	<b>11.7</b>	<b>14.7</b>	<b>10.9</b>
Copper	2,900	8,200	---	2,900	---	<b>22.8</b>	<b>26.3</b>	<b>33.4</b>
Iron	15,000 / 15,900	---	---	---	---	<b>21400</b>	<b>20600</b>	<b>26500</b>
Lead	107	700	---	400	---	<b>20.3</b>	<b>12.1</b>	<b>21</b>
Magnesium	325,000	730,000	---	325,000	---	<b>22800</b>	<b>23800</b>	<b>8110</b>
Manganese	630 / 636	4100	8,700	1,600	---	<b>344</b>	<b>421</b>	<b>558</b>
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	<b>29.9</b>	<b>33.4</b>	<b>35.1</b>
Potassium	---	---	---	---	---	<b>2180</b>	<b>2440</b>	<b>1650</b>
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	<b>465</b>	<b>201</b>	<b>174</b>
Vanadium	550	1400	---	550	---	<b>25.5</b>	<b>24.1</b>	<b>34.2</b>
Zinc	5,100	61,000	---	23,000	---	<b>52.7</b>	<b>43.7</b>	<b>58.2</b>
<b>TCLP Metals, mg/L</b>		Class I Groundwater <sup>d/</sup>						
Chromium		0.1				<0.005	<0.005	<0.005
Iron		5				<b>0.2</b>	<0.1	<0.1
Lead		0.0075				<b>0.027</b>	<0.005	<0.005
Manganese		0.15				<b>6.02</b>	<b>1.22</b>	<0.10
Selenium		0.05				<0.010	<b>0.013</b>	<0.010
Zinc		5				<b>0.3</b>	<0.1	<0.1
<b>SPLP Metals, mg/L</b>		Class I Groundwater <sup>d/</sup>						
Arsenic		0.05				<0.010	<0.010	<0.010
Barium		2				<1.0	<1.0	<1.0
Beryllium		0.004				<0.004	<0.004	<0.004
Cadmium		0.005				<0.005	<0.005	<0.005
Chromium		0.1				<0.005	<0.005	<b>0.022</b>
Copper		0.65				<0.005	<0.005	<b>0.018</b>
Iron		5				<b>2.5</b>	<b>1.9</b>	<b>21.1</b>
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
Selenium		0.05				<0.010	<b>0.023</b>	<0.010
Zinc		5				<0.1	<0.1	<0.1

--- Refers to not applicable or value not available

<sup>a/</sup> 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.

<sup>b/</sup> Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

<sup>c/</sup> Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

<sup>d/</sup> 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.

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

LPC-663 (Page 5 of 7)  
 Unrestricted Soils for Reuse or Disposal at CCDD Facilities  
 FAU 1504 (55th Street)  
 Countryside, Cook County, Illinois  
 BDE Sequence No.: 12403D  
 PTB: 199-014/HH-2, Work Order No.: 39A

Boring ID	Soil Reference Concentrations <sup>a/</sup>	Soil Remediation Objective for Construction Workers <sup>b/</sup>		Soil Remediation Objective for Residential Exposure <sup>c/</sup>		1560V3-52-01	1560V3-76-01	1560V3-76-01
						(5-10)	(0-3)	(3-6)
Sample Depth, ft						7/17/2024	7/10/2024	7/10/2024
Sample Date								
Excavation Area(s) ID		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	1560V3-52	1560V3-76	
Parameter								
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.23	7.62	7.92
PID Readings (ppm)						0.0	0.0	0.0
<b>VOCs, mg/kg</b>								
<b>SVOCs, mg/kg</b>								
Benzo(a)pyrene	0.09 / 11.4* / 2.1	17	---	0.09	---	<0.09	<0.09	<0.09
<b>Total Metals, mg/kg</b>								
Arsenic	11.3 / 13	61	25,000	---	750	<b>7.5</b>	<b>7.2</b>	<b>5.5</b>
Barium	1,500	14,000	870,000	5,500	690,000	<b>54.6</b>	<b>132</b>	<b>76.3</b>
Beryllium	22	410	44,000	160	1,300	<0.5	<b>1</b>	<b>0.6</b>
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	<b>52800</b>	<b>6040</b>	<b>37600</b>
Chromium	21	4100	690	230	270	<b>19.5</b>	<b>24.6</b>	<b>23.2</b>
Cobalt	20	12000	---	4,700	---	<b>13.4</b>	<b>11.4</b>	<b>8.9</b>
Copper	2,900	8,200	---	2,900	---	<b>39.9</b>	<b>21.4</b>	<b>25</b>
Iron	15,000 / 15,900	---	---	---	---	<b>22200</b>	<b>25600</b>	<b>26500</b>
Lead	107	700	---	400	---	<b>11.3</b>	<b>17.2</b>	<b>9.6</b>
Magnesium	325,000	730,000	---	325,000	---	<b>23000</b>	<b>5700</b>	<b>22800</b>
Manganese	630 / 636	4100	8,700	1,600	---	<b>604</b>	<b>414</b>	<b>255</b>
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	<b>36.7</b>	<b>27.3</b>	<b>29.8</b>
Potassium	---	---	---	---	---	<b>2370</b>	<b>2010</b>	<b>1930</b>
Silver	4.4	1000	---	390	---	<b>0.2</b>	<b>0.3</b>	<b>0.3</b>
Sodium	---	---	---	---	---	<b>195</b>	<b>677</b>	<b>533</b>
Vanadium	550	1400	---	550	---	<b>25.5</b>	<b>35.8</b>	<b>27.6</b>
Zinc	5,100	61,000	---	23,000	---	<b>48.9</b>	<b>56</b>	<b>49.1</b>
<b>TCLP Metals, mg/L</b>		Class I Groundwater <sup>d/</sup>						
Chromium			0.1			<0.005	<0.005	<0.005
Iron			5			<0.1	<0.1	<0.1
Lead			0.0075			<0.005	<0.005	<0.005
Manganese			0.15			<b>0.71</b>	<0.10	<b>1.87</b>
Selenium			0.05			<0.010	<0.010	<b>0.012</b>
Zinc			5			<0.1	<0.1	<0.1
<b>SPLP Metals, mg/L</b>		Class I Groundwater <sup>d/</sup>						
Arsenic			0.05			<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005
Chromium			0.1			<b>0.011</b>	<b>0.025</b>	<b>0.006</b>
Copper			0.65			<b>0.01</b>	<b>0.018</b>	<0.005
Iron			5			<b>8.9</b>	<b>22.5</b>	<b>4.6</b>
Lead			0.0075			<0.005	<0.005	<0.005
Manganese			0.15			<0.10	<b>0.11</b>	<0.10
Mercury			0.002			<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010
Zinc			5			<0.1	<0.1	<0.1

--- Refers to not applicable or value not available

<sup>a/</sup> 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.

<sup>b/</sup> Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

<sup>c/</sup> Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

<sup>d/</sup> 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.

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

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 Unrestricted Soils for Reuse or Disposal at CCDD Facilities  
 FAU 1504 (55th Street)  
 Countryside, Cook County, Illinois  
 BDE Sequence No.: 12403D  
 PTB: 199-014/HH-2, Work Order No.: 39A

Boring ID	Soil Reference Concentrations <sup>a/</sup>	Soil Remediation Objective for Construction Workers <sup>b/</sup>		Soil Remediation Objective for Residential Exposure <sup>c/</sup>		1560V3-82-02	1560V3-82-02	1560V3-87-01
						(0-3)	(3-6)	(0-5)
Sample Depth, ft	Sample Date					7/10/2024	7/10/2024	7/11/2024
Excavation Area(s) ID		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	1560V3-82		1560V3-87
<b>Parameter</b>								
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.67	8.91	8.14
PID Readings (ppm)						0.0	0.0	0.0
<b>VOCs, mg/kg</b>								
<b>SVOCs, mg/kg</b>								
Benzo(a)pyrene	0.09 / 11.4* / 2.1	17	---	0.09	---	<0.09	<0.09	<0.09
<b>Total Metals, mg/kg</b>								
Arsenic	11.3 / 13	61	25,000	---	750	<b>4.2</b>	<b>6.5</b>	<b>6.3</b>
Barium	1,500	14,000	870,000	5,500	690,000	<b>109</b>	<b>63</b>	<b>108</b>
Beryllium	22	410	44,000	160	1,300	<b>0.7</b>	<b>0.6</b>	<b>0.8</b>
Cadmium	5.2	200	59,000	78	1,800	<0.5	<b>0.6</b>	<0.5
Calcium	---	---	---	---	---	<b>5330</b>	<b>52000</b>	<b>21900</b>
Chromium	21	4100	690	230	270	<b>16.1</b>	<b>18.5</b>	<b>23.3</b>
Cobalt	20	12000	---	4,700	---	<b>8.6</b>	<b>15</b>	<b>9.3</b>
Copper	2,900	8,200	---	2,900	---	<b>18.2</b>	<b>24.4</b>	<b>27.3</b>
Iron	15,000 / 15,900	---	---	---	---	<b>15900</b>	<b>20700</b>	<b>22800</b>
Lead	107	700	---	400	---	<b>16.4</b>	<b>13.1</b>	<b>38</b>
Magnesium	325,000	730,000	---	325,000	---	<b>3430</b>	<b>21400</b>	<b>12100</b>
Manganese	630 / 636	4100	8,700	1,600	---	<b>164</b>	<b>592</b>	<b>308</b>
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	<b>18.9</b>	<b>35.7</b>	<b>28.7</b>
Potassium	---	---	---	---	---	<b>1660</b>	<b>1770</b>	<b>2110</b>
Silver	4.4	1000	---	390	---	<b>0.2</b>	<b>0.3</b>	<b>0.2</b>
Sodium	---	---	---	---	---	<b>1230</b>	<b>936</b>	<b>707</b>
Vanadium	550	1400	---	550	---	<b>25.6</b>	<b>25</b>	<b>31.8</b>
Zinc	5,100	61,000	---	23,000	---	<b>47.5</b>	<b>41.6</b>	<b>66.9</b>
<b>TCLP Metals, mg/L</b>		Class I Groundwater <sup>d/</sup>						
Chromium			0.1			<0.005	<0.005	<0.005
Iron			5			<0.1	<0.1	<0.1
Lead			0.0075			<0.005	<0.005	<0.005
Manganese			0.15			<0.10	<b>1.52</b>	<b>0.47</b>
Selenium			0.05			<0.010	<0.010	<0.010
Zinc			5			<0.1	<0.1	<0.1
<b>SPLP Metals, mg/L</b>		Class I Groundwater <sup>d/</sup>						
Arsenic			0.05			<b>0.03</b>	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005
Chromium			0.1			<b>0.069</b>	<b>0.036</b>	<b>0.035</b>
Copper			0.65			<b>0.084</b>	<b>0.029</b>	<b>0.026</b>
Iron			5			<b>85.4</b>	<b>31.2</b>	<b>30</b>
Lead			0.0075			<b>0.036</b>	<b>0.01</b>	<b>0.02</b>
Manganese			0.15			<b>0.85</b>	<b>0.15</b>	<b>0.11</b>
Mercury			0.002			<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010
Zinc			5			<b>0.2</b>	<0.1	<0.1

--- Refers to not applicable or value not available

<sup>a/</sup> 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.

<sup>b/</sup> Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

<sup>c/</sup> Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

<sup>d/</sup> 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.

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

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 Unrestricted Soils for Reuse or Disposal at CCDD Facilities  
 FAU 1504 (55th Street)  
 Countryside, Cook County, Illinois  
 BDE Sequence No.: 12403D  
 PTB: 199-014/HH-2, Work Order No.: 39A

Boring ID	Soil Reference Concentrations <sup>a/</sup>	Soil Remediation Objective for Construction Workers <sup>b/</sup>		Soil Remediation Objective for Residential Exposure <sup>c/</sup>		1560V3-87-02	DUP-08 (1560V3-87-02)
						(0-5)	(0-5)
						7/11/2024	7/11/2024
Sample Depth, ft	Sample Date	Excavation Area(s) ID	Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	1560V3-87
Parameter							
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.16	8.12
PID Readings (ppm)						0.0	0.0
<b>VOCs, mg/kg</b>							
<b>SVOCs, mg/kg</b>							
Benzo(a)pyrene	0.09 / 11.4* / 2.1	17	---	0.09	---	<0.09	<0.09
<b>Total Metals, mg/kg</b>							
Arsenic	11.3 / 13	61	25,000	---	750	<b>6.4</b>	<b>6.1</b>
Barium	1,500	14,000	870,000	5,500	690,000	<b>114</b>	<b>116</b>
Beryllium	22	410	44,000	160	1,300	<b>0.8</b>	<b>0.8</b>
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5
Calcium	---	---	---	---	---	<b>4880</b>	<b>12000</b>
Chromium	21	4100	690	230	270	<b>22.4</b>	<b>20.9</b>
Cobalt	20	12000	---	4,700	---	<b>11.9</b>	<b>10.9</b>
Copper	2,900	8,200	---	2,900	---	<b>21.4</b>	<b>23.2</b>
Iron	15,000 / 15,900	---	---	---	---	<b>23300</b>	<b>20500</b>
Lead	107	700	---	400	---	<b>24</b>	<b>76.4</b>
Magnesium	325,000	730,000	---	325,000	---	<b>4130</b>	<b>6990</b>
Manganese	630 / 636	4100	8,700	1,600	---	<b>458</b>	<b>486</b>
Mercury	0.89	61	0.1	23	10	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	<b>27.5</b>	<b>25</b>
Potassium	---	---	---	---	---	<b>2330</b>	<b>2210</b>
Silver	4.4	1000	---	390	---	<b>0.3</b>	<b>0.2</b>
Sodium	---	---	---	---	---	<b>1530</b>	<b>1420</b>
Vanadium	550	1400	---	550	---	<b>33.9</b>	<b>30.9</b>
Zinc	5,100	61,000	---	23,000	---	<b>55.6</b>	<b>69.4</b>
<b>TCLP Metals, mg/L</b>			Class I Groundwater <sup>d/</sup>				
Chromium			0.1			<0.005	<0.005
Iron			5			<b>0.3</b>	<0.1
Lead			0.0075			<0.005	<0.005
Manganese			0.15			<0.10	<0.10
Selenium			0.05			<0.010	<0.010
Zinc			5			<0.1	<0.1
<b>SPLP Metals, mg/L</b>			Class I Groundwater <sup>d/</sup>				
Arsenic			0.05			<b>0.016</b>	<0.010
Barium			2			<1.0	<1.0
Beryllium			0.004			<0.004	<0.004
Cadmium			0.005			<0.005	<0.005
Chromium			0.1			<b>0.12</b>	<b>0.075</b>
Copper			0.65			<b>0.072</b>	<b>0.05</b>
Iron			5			<b>106</b>	<b>62.3</b>
Lead			0.0075			<b>0.053</b>	<b>0.114</b>
Manganese			0.15			<b>0.5</b>	<b>0.3</b>
Mercury			0.002			<0.0005	<0.0005
Nickel			0.1			<b>0.1</b>	<0.1
Selenium			0.05			<0.010	<0.010
Zinc			5			<b>0.3</b>	<b>0.2</b>

--- Refers to not applicable or value not available

<sup>a/</sup> 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.

<sup>b/</sup> Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

<sup>c/</sup> Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

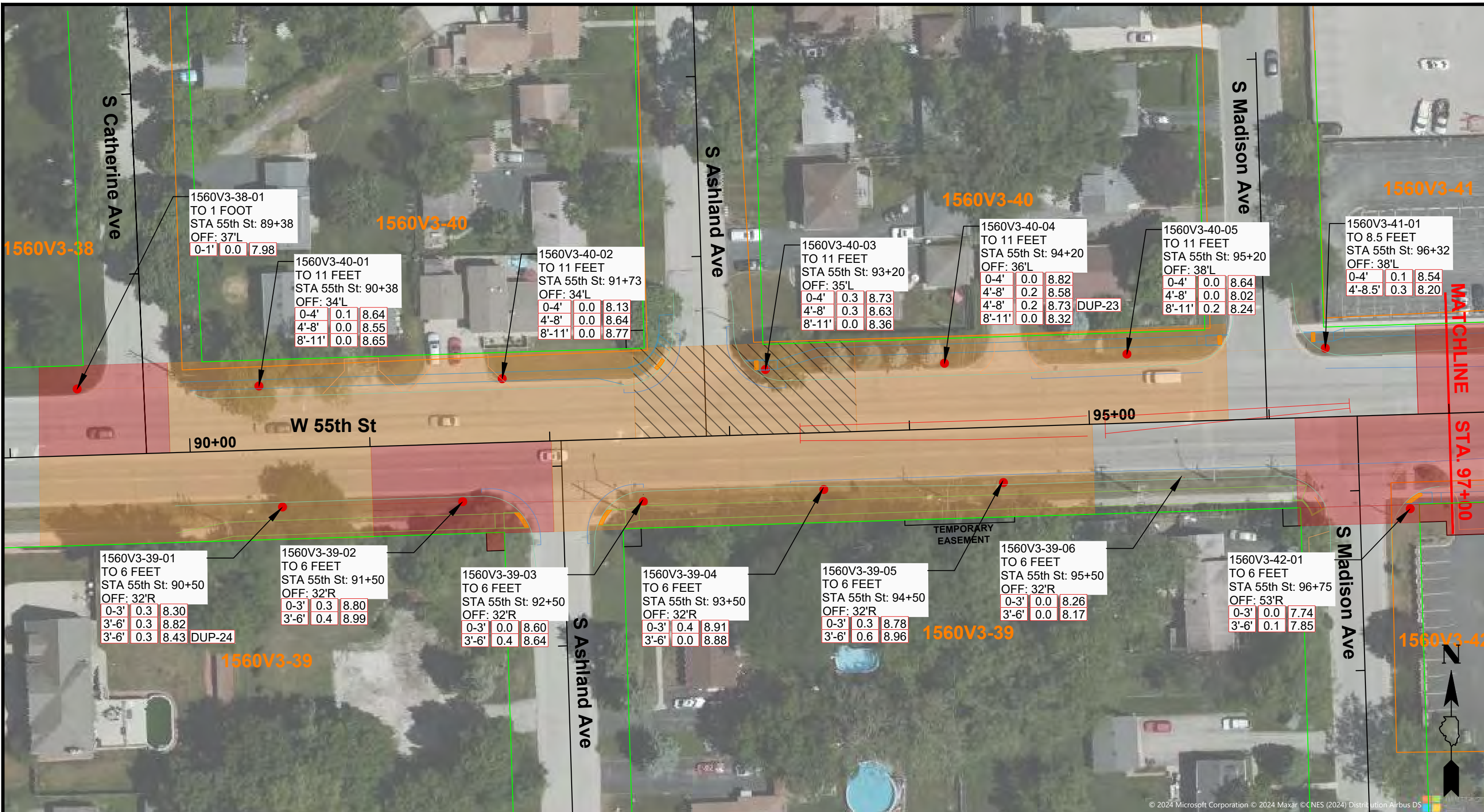
<sup>d/</sup> Soil Remediation Objective for the Groundwater Component of the Groundwater Ingestion Route, Class I Groundwater

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

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



LEGEND	
<span style="color: red;">●</span>	Soil Boring Location
<span style="border: 2px solid blue; padding: 2px;"> </span>	Project Area of Planned Improvement
<span style="border: 1px solid orange; padding: 2px;"> </span>	PESA Site
<span style="border: 1px solid red; padding: 2px;"> </span>	PID
<span style="border: 1px solid red; padding: 2px;"> </span>	pH
<span style="border: 1px solid red; padding: 2px;"> </span>	PID Exceeds background level or pH is outside acceptable range for CCDD disposal
<span style="border: 1px solid red; padding: 2px;"> </span>	#=#' PID pH
<span style="border: 1px solid red; padding: 2px;"> </span>	WORK ZONE

**NOTES:**

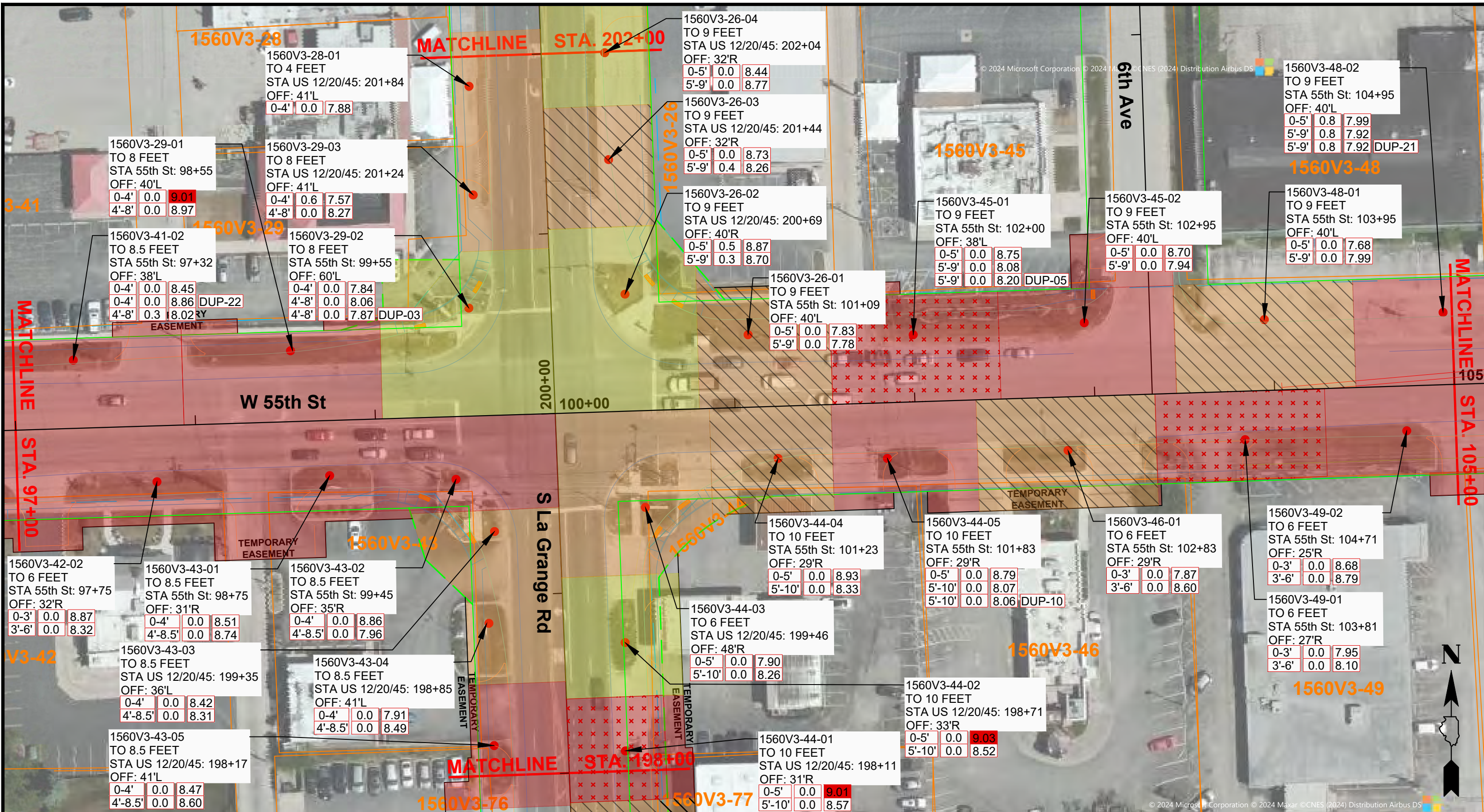
- ADDITIONAL DETAIL AND INFORMATION REGARDING REGULATED SUBSTANCES MANAGEMENT AND DISPOSAL CLASSIFICATIONS CAN BE FOUND IN THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (SSRBC) SECTION 669.05.
- THIS FIGURE RELIES ON COLOR CODE DEPICTIONS FOR SOIL MANAGEMENT. PLEASE CONTACT THE DESU OR AE FOR ASSISTANCE.

W.O. Number: 39A	
Data Source: "As Noted"	
Contract Number: 199-014	BDE Sequence #: 12403D
PESA: 1560V4	Route: FAU 1504
IDOT Job Number: D-91-117-19	
City/County: COUNTRYSIDE, COOK	
Designed By: NZL	
Drawn By: DMG	
Checked By: SC	
Approved By: SC	
Date: 8-15-2024	

0' 50' 100'  
Feet

**Huff & Huff, Inc**

FIGURE 4-1.1  
REGULATED SUBSTANCE MANAGEMENT AREA  
IDOT WO#39A  
FAU 1504 (55th Street) From  
US 12/20/45 to East Ave  
COUNTRYSIDE, COOK COUNTY, ILLINOIS



**LEGEND**

<span style="background-color: yellow; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> 669.05(a)(1)	<span style="color: red;">●</span> Soil Boring Location	<span style="border-bottom: 2px dashed green; width: 20px; display: inline-block;"></span> Proposed ROW
<span style="background-color: orange; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> 669.05(a)(2)	<span style="border: 2px solid blue; padding: 2px; display: inline-block; width: 15px; height: 10px;"></span> Project Area of Planned Improvement	<span style="border-bottom: 2px solid green; width: 20px; display: inline-block;"></span> ROW
<span style="background-color: #f08080; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> 669.05(a)(3)	<span style="background-color: red; color: white; padding: 2px; display: inline-block; width: 15px; height: 10px;"></span> PID	<span style="background-color: red; color: white; padding: 2px; display: inline-block; width: 15px; height: 10px;"></span> pH
<span style="background-color: #f08080; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> 669.05(a)(5)	PID Exceeds background level or pH is outside acceptable range for CCDD disposal	
<span style="border: 1px dashed red; display: inline-block; width: 15px; height: 10px;"></span> WORK ZONE	<span style="border: 1px solid black; padding: 2px; display: inline-block; width: 15px; height: 10px;"></span> #=#	<span style="border: 1px solid black; padding: 2px; display: inline-block; width: 15px; height: 10px;"></span> PID
	<span style="border: 1px solid black; padding: 2px; display: inline-block; width: 15px; height: 10px;"></span> pH	

**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.

W.O. Number: 39A

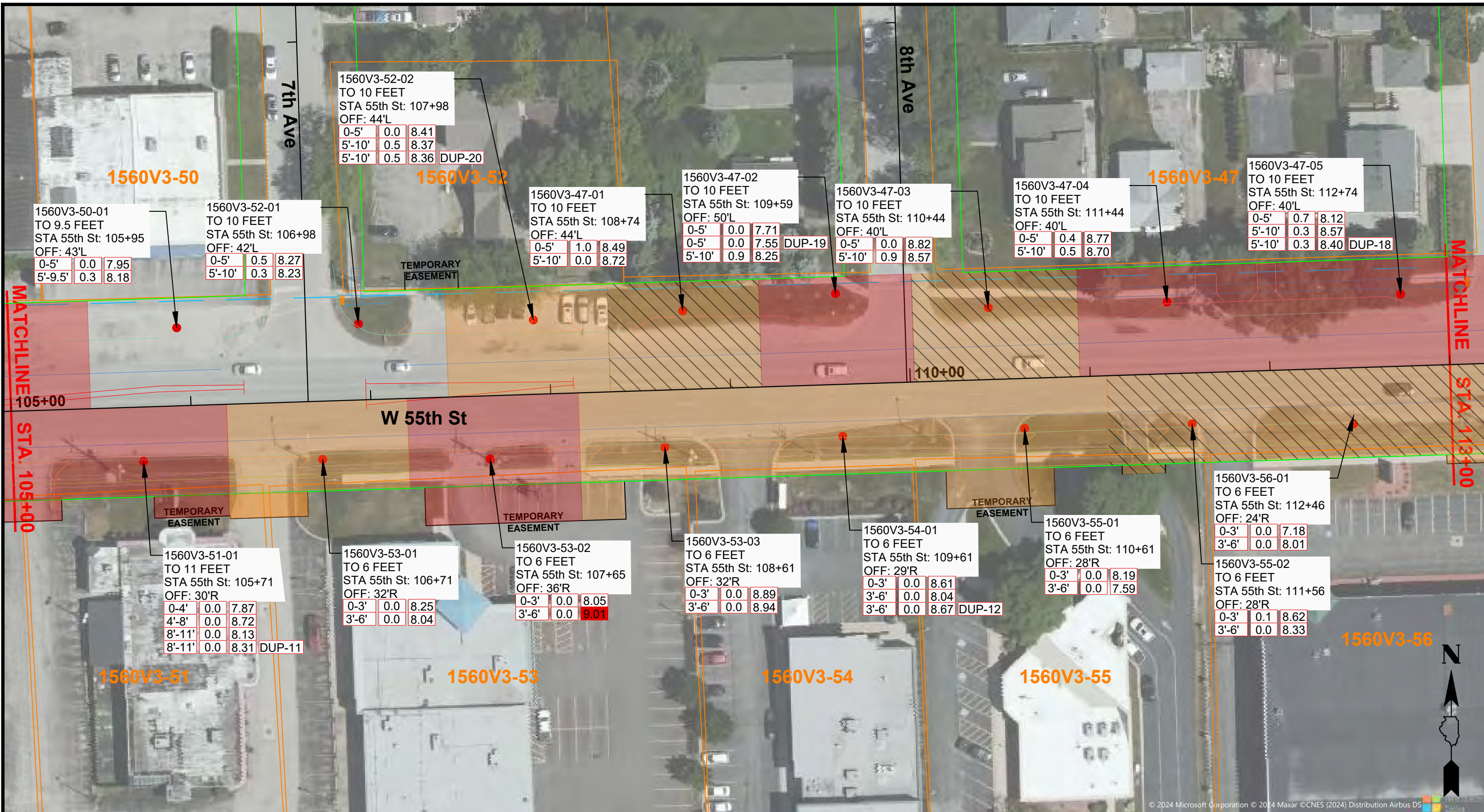
Data Source: "As Noted"	
Contract Number: 199-014	BDE Sequence #: 12403D
PESA: 1560V4	Route: FAU 1504
IDOT Job Number: D-91-117-19	
City/County: COUNTRYSIDE, COOK	
Designed By: NZL	
Drawn By: DMG	
Checked By: SC	
Approved By: SC	
Date: 8-15-2024	

0' 50' 100'  
Feet

**Huff & Huff, Inc**

FIGURE 4-1.2  
REGULATED SUBSTANCE MANAGEMENT AREA  
IDOT WO#39A  
FAU 1504 (55th Street) From  
US 12/20/45 to East Ave  
COUNTRYSIDE, COOK COUNTY, ILLINOIS





LEGEND	
<span style="background-color: yellow; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span>	669.05(a)(1)
<span style="background-color: orange; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span>	669.05(a)(2)
<span style="background-color: #f4a460; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span>	669.05(a)(3)
<span style="background-color: #f08080; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span>	669.05(a)(5)
<span style="border: 2px dashed red; display: inline-block; width: 15px; height: 10px;"></span>	WORK ZONE
<span style="color: red;">●</span>	Soil Boring Location
<span style="border: 2px solid blue; display: inline-block; width: 15px; height: 10px;"></span>	Project Area of Planned Improvement
<span style="border: 1px solid orange; display: inline-block; width: 15px; height: 10px;"></span>	PESA Site
<span style="background-color: #f08080; border: 1px solid black; padding: 2px;">PID</span> <span style="background-color: #f08080; border: 1px solid black; padding: 2px;">pH</span>	PID Exceeds background level or pH is outside acceptable range for CCDD disposal
<span style="border: 1px solid red; padding: 2px;">#=#</span> <span style="border: 1px solid red; padding: 2px;">PID</span> <span style="border: 1px solid red; padding: 2px;">pH</span>	
<span style="color: green;">—</span>	Proposed ROW
<span style="color: green;">—</span>	ROW

**NOTES:**

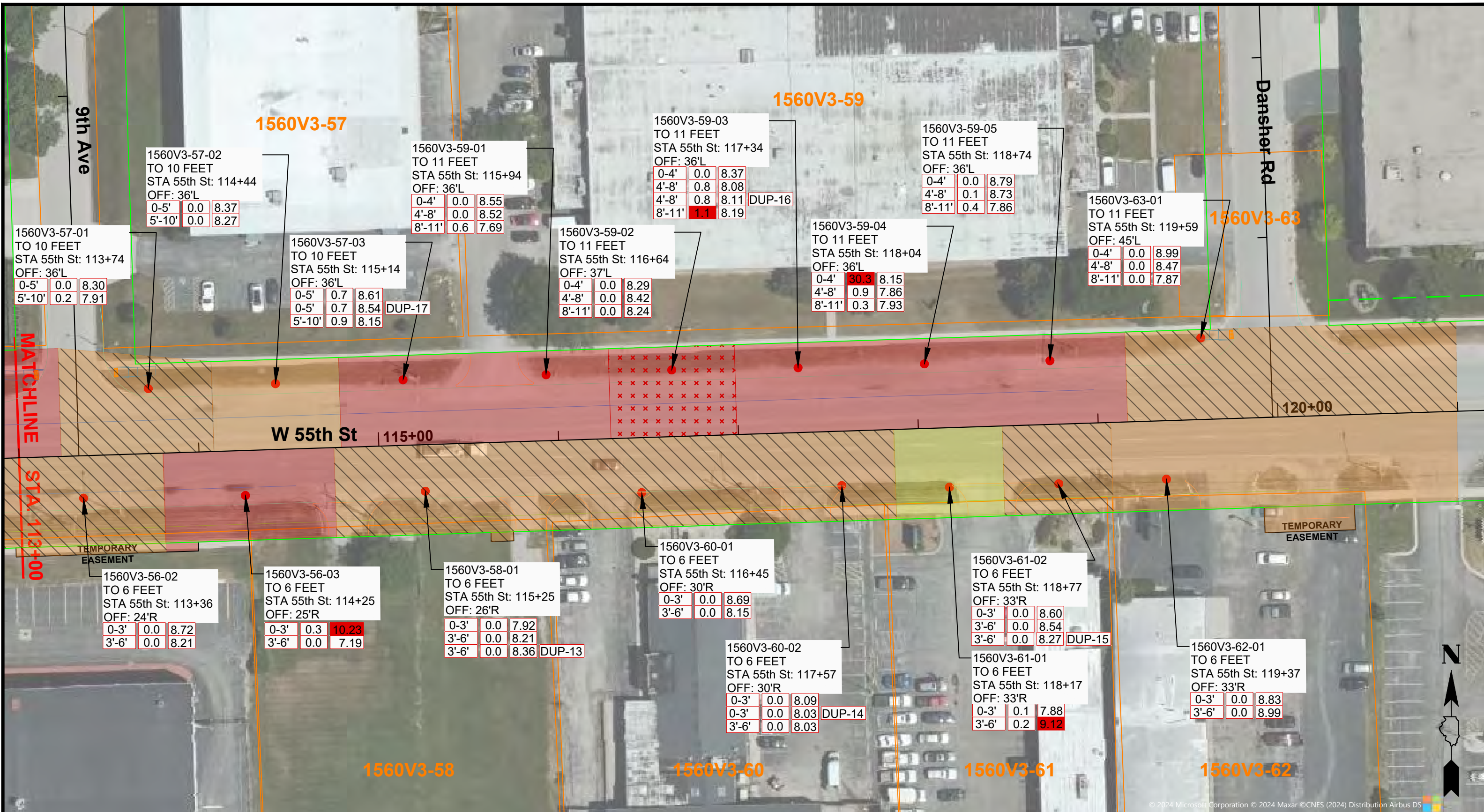
- ADDITIONAL DETAIL AND INFORMATION REGARDING REGULATED SUBSTANCES MANAGEMENT AND DISPOSAL CLASSIFICATIONS CAN BE FOUND IN THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (SSRBC) SECTION 669.05.
- THIS FIGURE RELIES ON COLOR CODE DEPICTIONS FOR SOIL MANAGEMENT. PLEASE CONTACT THE DESU OR AE FOR ASSISTANCE.

W.O. Number: 39A	
Data Source: "As Noted"	
Contract Number: 199-014	BDE Sequence #: 12403D
PESA: 1560V4	Route: FAU 1504
IDOT Job Number: D-91-117-19	
City/County: COUNTRYSIDE, COOK	
Designed By: NZL	
Drawn By: DMG	
Checked By: SC	
Approved By: SC	
Date: 8-15-2024	

0' 50' 100'  
Feet

**Huff & Huff, Inc**

FIGURE 4-1.3  
REGULATED SUBSTANCE MANAGEMENT AREA  
IDOT WO#39A  
FAU 1504 (55th Street) From  
US 12/20/45 to East Ave  
COUNTRYSIDE, COOK COUNTY, ILLINOIS



LEGEND	
<span style="background-color: yellow; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span>	669.05(a)(1)
<span style="background-color: orange; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span>	669.05(a)(2)
<span style="background-color: #f0e68c; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span>	669.05(a)(3)
<span style="background-color: #f08080; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span>	669.05(a)(5)
<span style="border: 1px dashed red; display: inline-block; width: 15px; height: 10px;"></span>	WORK ZONE
<span style="color: red;">●</span>	Soil Boring Location
<span style="border: 2px solid blue; display: inline-block; width: 15px; height: 10px;"></span>	Project Area of Planned Improvement
<span style="border: 1px solid orange; display: inline-block; width: 15px; height: 10px;"></span>	PESA Site
<span style="border: 1px solid red; padding: 2px;">PID</span> <span style="border: 1px solid red; padding: 2px;">pH</span>	PID Exceeds background level or pH is outside acceptable range for CCDD disposal
<span style="border: 1px solid red; padding: 2px;">#=#</span> <span style="border: 1px solid red; padding: 2px;">PID</span> <span style="border: 1px solid red; padding: 2px;">pH</span>	
<span style="color: green;">—</span>	Proposed ROW
<span style="color: green;">—</span>	ROW

**NOTES:**

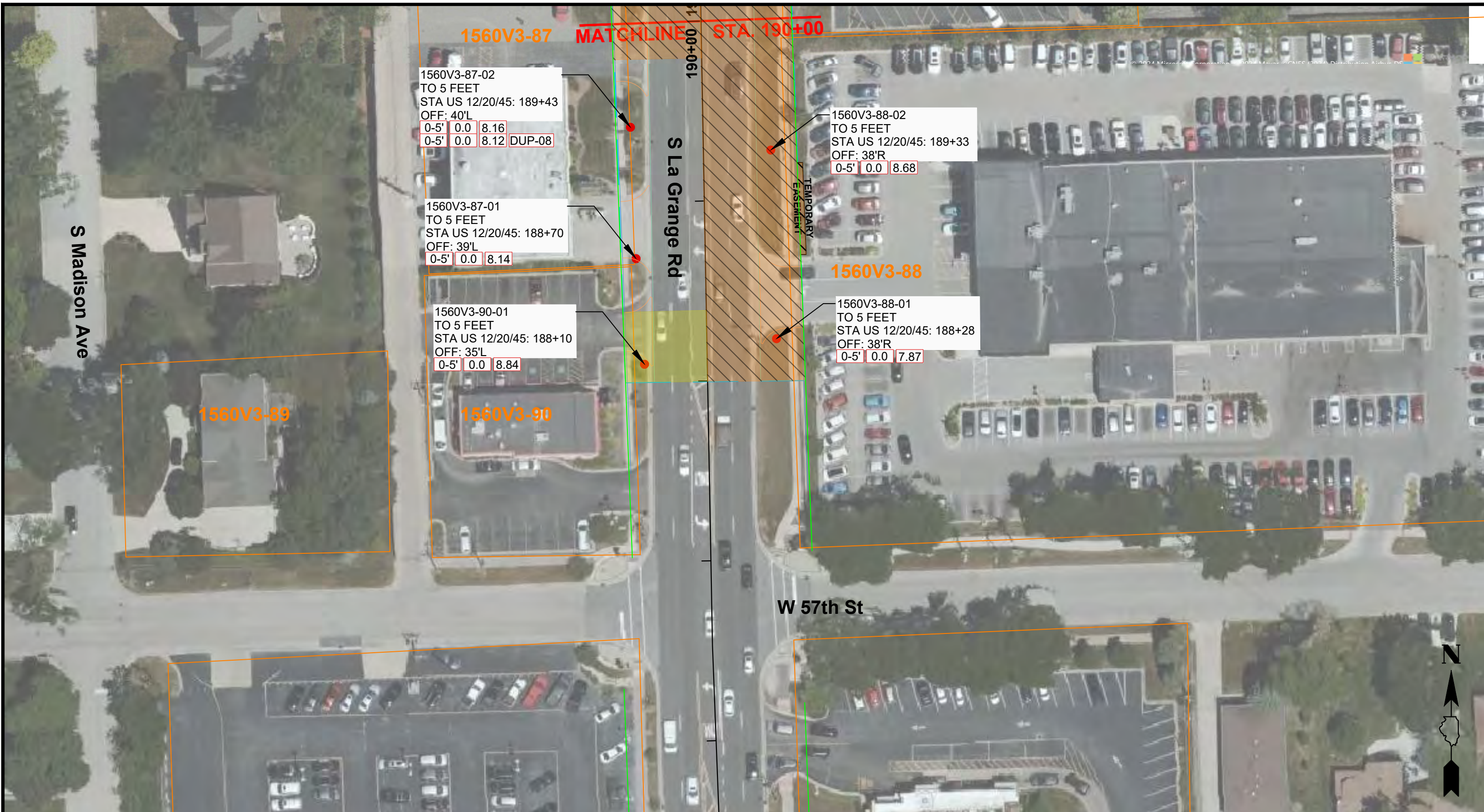
- ADDITIONAL DETAIL AND INFORMATION REGARDING REGULATED SUBSTANCES MANAGEMENT AND DISPOSAL CLASSIFICATIONS CAN BE FOUND IN THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (SSRBC) SECTION 669.05.
- THIS FIGURE RELIES ON COLOR CODE DEPICTIONS FOR SOIL MANAGEMENT. PLEASE CONTACT THE DESU OR AE FOR ASSISTANCE.

W.O. Number: 39A	
Data Source: "As Noted"	
Contract Number: 199-014	BDE Sequence #: 12403D
PESA: 1560V4	Route: FAU 1504
IDOT Job Number: D-91-117-19	
City/County: COUNTRYSIDE, COOK	
Designed By: NZL	
Drawn By: DMG	
Checked By: SC	
Approved By: SC	
Date: 8-15-2024	

0' 50' 100'  
Feet

**Huff & Huff, Inc**

FIGURE 4-1.4  
REGULATED SUBSTANCE MANAGEMENT AREA  
IDOT WO#39A  
FAU 1504 (55th Street) From  
US 12/20/45 to East Ave  
COUNTRYSIDE, COOK COUNTY, ILLINOIS



S Madison Ave

1560V3-87 MATCHLINE STA. 190+00

S La Grange Rd

W 57th St

1560V3-87-02  
TO 5 FEET  
STA US 12/20/45: 189+43  
OFF: 40'L  
0-5' 0.0 8.16  
0-5' 0.0 8.12 DUP-08

1560V3-87-01  
TO 5 FEET  
STA US 12/20/45: 188+70  
OFF: 39'L  
0-5' 0.0 8.14

1560V3-90-01  
TO 5 FEET  
STA US 12/20/45: 188+10  
OFF: 35'L  
0-5' 0.0 8.84

1560V3-88-02  
TO 5 FEET  
STA US 12/20/45: 189+33  
OFF: 38'R  
0-5' 0.0 8.68

1560V3-88-01  
TO 5 FEET  
STA US 12/20/45: 188+28  
OFF: 38'R  
0-5' 0.0 7.87

1560V3-89

1560V3-90

1560V3-88

LEGEND	
	669.05(a)(1)
	669.05(a)(2)
	669.05(a)(3)
	669.05(a)(5)
	WORK ZONE
	Soil Boring Location
	Project Area of Planned Improvement
	PESA Site
	PID Exceeds background level or pH is outside acceptable range for CCDD disposal
	#=# PID pH
	Proposed ROW
	ROW

**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.

W.O. Number: 39A	
Data Source: "As Noted"	
Contract Number: 199-014	BDE Sequence #: 12403D
PESA: 1560V4	Route: FAU 1504
IDOT Job Number: D-91-117-19	
City/County: COUNTRYSIDE, COOK	
Designed By: NZL	
Drawn By: DMG	
Checked By: SC	
Approved By: SC	
Date: 8-15-2024	

0' 50' 100'  
Feet

**Huff & Huff, Inc**

FIGURE 4-1.5  
 REGULATED SUBSTANCE MANAGEMENT AREA  
 IDOT WO#39A  
 FAU 1504 (55th Street) From  
 US 12/20/45 to East Ave  
 COUNTRYSIDE, COOK COUNTY, ILLINOIS



**LEGEND**

	669.05(a)(1)		Soil Boring Location
	669.05(a)(2)		Project Area of Planned Improvement
	669.05(a)(3)		PESA Site
	669.05(a)(5)		PID Exceeds background level or pH is outside acceptable range for CCDD disposal
	WORK ZONE		#=# PID pH

Proposed ROW  
 ROW

**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.

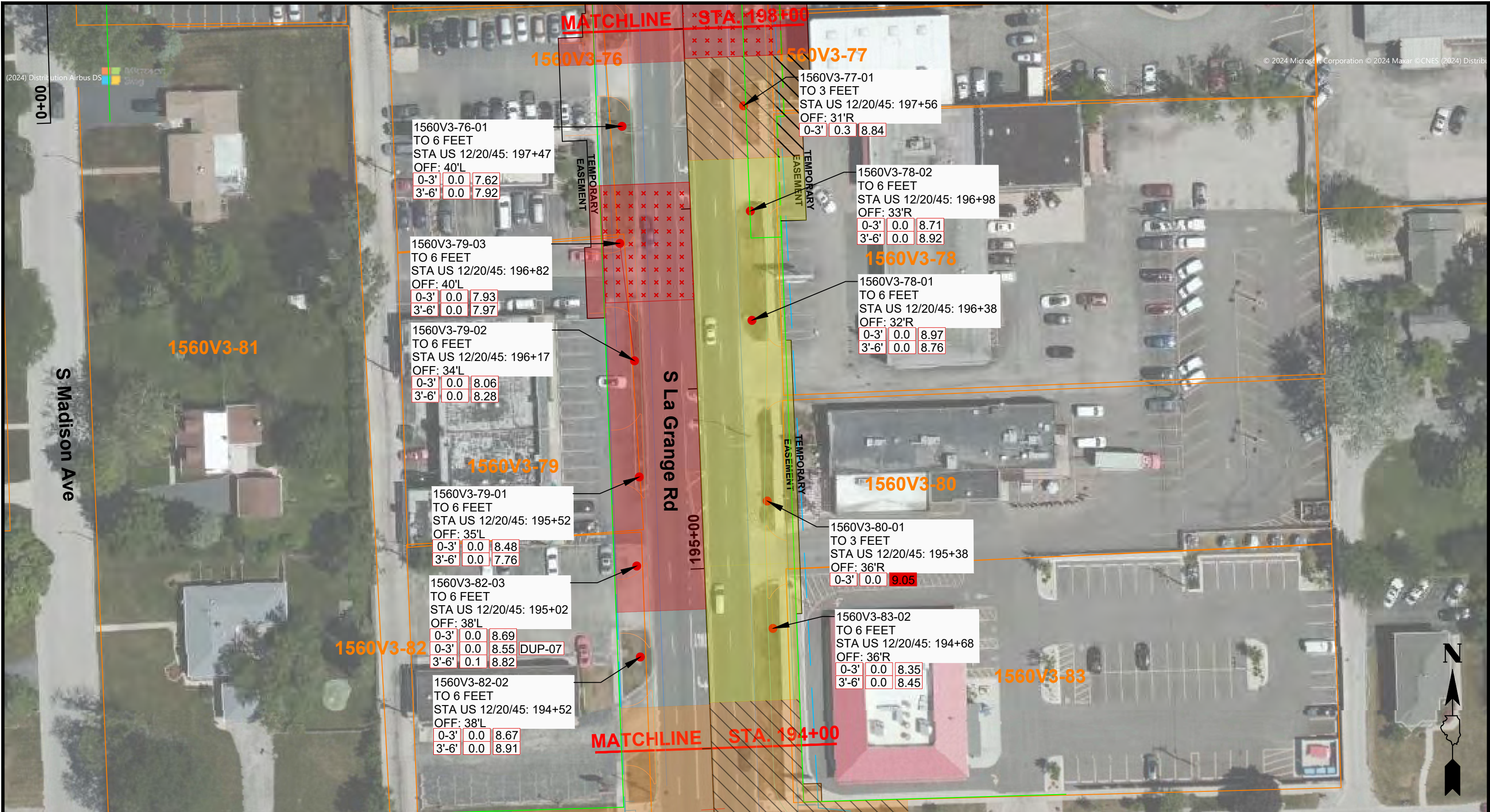
W.O. Number: 39A

Data Source: "As Noted"	
Contract Number: 199-014	BDE Sequence #: 12403D
PESA: 1560V4	Route: FAU 1504
IDOT Job Number: D-91-117-19	
City/County: COUNTRYSIDE, COOK	
Designed By: NZL	
Drawn By: DMG	
Checked By: SC	
Approved By: SC	
Date: 8-15-2024	

0' 50' 100'  
Feet

**Huff & Huff, Inc**

FIGURE 4-1.6  
 REGULATED SUBSTANCE MANAGEMENT AREA  
 IDOT WO#39A  
 FAU 1504 (55th Street) From  
 US 12/20/45 to East Ave  
 COUNTRYSIDE, COOK COUNTY, ILLINOIS



LEGEND	
<span style="color: red;">●</span>	Soil Boring Location
<span style="border: 2px solid blue; padding: 2px;"> </span>	Project Area of Planned Improvement
<span style="border: 1px solid orange; padding: 2px;"> </span>	PESA Site
<span style="border: 1px solid red; padding: 2px;"> </span>	PID
<span style="border: 1px solid red; padding: 2px;"> </span>	pH
<span style="border: 1px solid red; padding: 2px;"> </span>	#=#' PID pH
<span style="border: 1px dashed red; padding: 2px;"> </span>	WORK ZONE
<span style="border-bottom: 1px solid green; width: 20px; display: inline-block;"></span>	Proposed ROW
<span style="border-bottom: 1px solid green; width: 20px; display: inline-block;"></span>	ROW

**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.

W.O. Number: 39A	
Data Source: "As Noted"	
Contract Number: 199-014	BDE Sequence #: 12403D
PESA: 1560V4	Route: FAU 1504
IDOT Job Number: D-91-117-19	
City/County: COUNTRYSIDE, COOK	
Designed By: NZL	
Drawn By: DMG	
Checked By: SC	
Approved By: SC	
Date: 8-15-2024	

0' 50' 100'  
Feet

**Huff & Huff, Inc**

FIGURE 4-1.7  
REGULATED SUBSTANCE MANAGEMENT AREA  
IDOT WO#39A  
FAU 1504 (55th Street) From  
US 12/20/45 to East Ave  
COUNTRYSIDE, COOK COUNTY, ILLINOIS



LEGEND	
	669.05(a)(1)
	669.05(a)(2)
	669.05(a)(3)
	669.05(a)(5)
	WORK ZONE
	Soil Boring Location
	Project Area of Planned Improvement
	PESA Site
	PID Exceeds background level or pH is outside acceptable range for CCDD disposal
	#=# PID pH
	Proposed ROW
	ROW

**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.

W.O. Number: 39A	
Data Source: "As Noted"	
Contract Number: 199-014	BDE Sequence #: 12403D
PESA: 1560V4	Route: FAU 1504
IDOT Job Number: D-91-117-19	
City/County: COUNTRYSIDE, COOK	
Designed By: NZL	
Drawn By: DMG	
Checked By: SC	
Approved By: SC	
Date: 8-15-2024	

0' 50' 100'  
Feet

**Huff & Huff, Inc**

FIGURE 4-1.8  
REGULATED SUBSTANCE MANAGEMENT AREA  
IDOT WO#39A  
FAU 1504 (55th Street) From  
US 12/20/45 to East Ave  
COUNTRYSIDE, COOK COUNTY, ILLINOIS



LEGEND	
<span style="color: red;">●</span>	Soil Boring Location
<span style="border: 2px solid blue; padding: 2px;"> </span>	Project Area of Planned Improvement
<span style="border: 1px solid orange; padding: 2px;"> </span>	PESA Site
<span style="background-color: yellow; border: 1px solid black; padding: 2px;"> </span>	669.05(a)(1)
<span style="background-color: orange; border: 1px solid black; padding: 2px;"> </span>	669.05(a)(2)
<span style="background-color: #f0f0f0; border: 1px solid black; padding: 2px;"> </span>	669.05(a)(3)
<span style="background-color: #f08080; border: 1px solid black; padding: 2px;"> </span>	669.05(a)(5)
<span style="border: 2px dashed red; padding: 2px;"> </span>	WORK ZONE
<span style="border: 1px solid red; padding: 2px;">#=#</span>	PID
<span style="border: 1px solid red; padding: 2px;">pH</span>	pH
<span style="border: 1px solid red; padding: 2px;">#=#</span>	PID
<span style="border: 1px solid red; padding: 2px;">pH</span>	pH
<span style="border-bottom: 1px dashed green; width: 20px; display: inline-block;"></span>	Proposed ROW
<span style="border-bottom: 1px solid green; width: 20px; display: inline-block;"></span>	ROW

**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.

W.O. Number: 39A	
Data Source: "As Noted"	
Contract Number: 199-014	BDE Sequence #: 12403D
PESA: 1560V4	Route: FAU 1504
IDOT Job Number: D-91-117-19	
City/County: COUNTRYSIDE, COOK	
Designed By: NZL	
Drawn By: DMG	
Checked By: SC	
Approved By: SC	
Date: 8-15-2024	

0' 50' 100'  
Feet

**Huff & Huff, Inc**

FIGURE 4-1.9  
REGULATED SUBSTANCE MANAGEMENT AREA  
IDOT WO#39A  
FAU 1504 (55th Street) From  
US 12/20/45 to East Ave  
COUNTRYSIDE, COOK COUNTY, ILLINOIS



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-19-01 (0-3)  
**Sample No:** 24-5950-012

**Date Collected:** 07/09/24  
**Time Collected:** 9:43  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/12/24				
Total Solids	80.00		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/16/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-19-01 (0-3)  
**Sample No:** 24-5950-012

**Date Collected:** 07/09/24  
**Time Collected:** 9:43  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/16/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/14/24				
Preparation Date: 07/11/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-19-01 (0-3)  
**Sample No:** 24-5950-012

**Date Collected:** 07/09/24  
**Time Collected:** 9:43  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/14/24		Preparation Date: 07/11/24		
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-19-01 (0-3)  
**Sample No:** 24-5950-012

**Date Collected:** 07/09/24  
**Time Collected:** 9:43  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/14/24		Preparation Method <b>3540C</b>		
		Preparation Date: 07/11/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/23/24		Preparation Method <b>3050B</b>		
		Preparation Date: 07/22/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.8	1.0	mg/kg	
Barium	65.5	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	0.7	0.5	mg/kg	
Calcium	2,990	50	mg/kg	
Chromium	23.0	0.5	mg/kg	
Cobalt	12.7	0.5	mg/kg	
Copper	24.6	0.5	mg/kg	
Iron	26,800	5.0	mg/kg	
Lead	20.8	0.5	mg/kg	
Magnesium	4,970	50	mg/kg	
Manganese	355	0.5	mg/kg	
Nickel	33.5	0.5	mg/kg	
Potassium	1,980	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	2,380	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	30.1	1.0	mg/kg	
Zinc	58.3	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/19/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/11/24 11:15				
pH @ 25°C, 1:2	7.80		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-19-01 (0-3)  
**Sample No:** 24-5950-012

**Date Collected:** 07/09/24  
**Time Collected:** 9:43  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**  
 Analysis Date: 07/12/24  
 TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C**  
 Analysis Date: 07/23/24  
**Preparation Method 3010A**  
 Preparation Date: 07/18/24

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 Method: 7470A**  
 Analysis Date: 07/17/24  
 Mercury < 0.0005 0.0005 mg/L

**SPLP Extraction Method: 1312**  
 Analysis Date: 07/12/24  
 SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C**  
 Analysis Date: 07/22/24  
**Preparation Method 3010A**  
 Preparation Date: 07/18/24

Arsenic	0.046	0.010	mg/L	
Barium	2.0	1.0	mg/L	
Beryllium	0.009	0.004	mg/L	
Cadmium	0.006	0.005	mg/L	
Chromium	0.357	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.299	0.005	mg/L	
Iron	319	0.1	mg/L	
Lead	0.146	0.005	mg/L	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-19-01 (0-3)  
**Sample No:** 24-5950-012

**Date Collected:** 07/09/24  
**Time Collected:** 9:43  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/22/24		Preparation Date: 07/18/24		
Manganese	1.27	0.10	mg/L	
Nickel	0.4	0.1	mg/L	
Selenium	0.014	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.8	0.1	mg/L	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/17/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	101.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.6	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	101.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	59	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	73	45	112
8270C	2-Fluorophenol (Surr)	%R:	72	41	84
8270C	d14-Terphenyl (Surr)	%R:	80	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	76	35	105
8270C	Phenol-d5 (surr)	%R:	92.5	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-21-03 (0-4)  
**Sample No:** 24-5950-019

**Date Collected:** 07/09/24  
**Time Collected:** 13:02  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/12/24				
Total Solids	73.42		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/16/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-21-03 (0-4)  
**Sample No:** 24-5950-019

**Date Collected:** 07/09/24  
**Time Collected:** 13:02  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/16/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>	
Analysis Date: 07/17/24				
Preparation Date: 07/11/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-21-03 (0-4)  
**Sample No:** 24-5950-019

**Date Collected:** 07/09/24  
**Time Collected:** 13:02  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/17/24		Preparation Date: 07/11/24		
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	
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	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-21-03 (0-4)  
**Sample No:** 24-5950-019

**Date Collected:** 07/09/24  
**Time Collected:** 13:02  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/17/24		Preparation Method <b>3540C</b>		
		Preparation Date: 07/11/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/23/24		Preparation Method <b>3050B</b>		
		Preparation Date: 07/22/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.9	1.0	mg/kg	
Barium	76.8	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	1.2	0.5	mg/kg	
Calcium	34,200	50	mg/kg	
Chromium	20.6	0.5	mg/kg	
Cobalt	9.1	0.5	mg/kg	
Copper	31.1	0.5	mg/kg	
Iron	21,100	5.0	mg/kg	
Lead	122	0.5	mg/kg	
Magnesium	18,500	50	mg/kg	
Manganese	288	0.5	mg/kg	
Nickel	28.5	0.5	mg/kg	
Potassium	1,820	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	560	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	26.2	1.0	mg/kg	
Zinc	141	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/19/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/11/24 11:15				
pH @ 25°C, 1:2	7.47		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-21-03 (0-4)  
**Sample No:** 24-5950-019

**Date Collected:** 07/09/24  
**Time Collected:** 13:02  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**

Analysis Date: 07/12/24

TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A**

Analysis Date: 07/23/24 Preparation Date: 07/18/24

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	0.019	0.005	mg/L	
Manganese	4.63	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: 07/19/24

Mercury < 0.0005 0.0005 mg/L

**SPLP Extraction Method: 1312**

Analysis Date: 07/12/24

SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A**

Analysis Date: 07/22/24 Preparation Date: 07/18/24

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	0.008	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	2.7	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-21-03 (0-4)  
**Sample No:** 24-5950-019

**Date Collected:** 07/09/24  
**Time Collected:** 13:02  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/22/24		Preparation Date: 07/18/24		
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	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/18/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
Method	Analyte	QC Result	Low	High	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 99.4	86	117	
5035A/8260B	d8-Toluene (Surr)	%R: 100.8	90	110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 101.7	77	120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 62.5	59	131	
8270C	2-Fluorobiphenyl (Surr)	%R: 91	45	112	
8270C	2-Fluorophenol (Surr)	%R: 80	41	84	
8270C	d14-Terphenyl (Surr)	%R: 89	56	120	
8270C	d5-Nitrobenzene (Surr)	%R: 90	35	105	
8270C	Phenol-d5 (surr)	%R: 97.5	50	100	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-21-03 (4-8)  
**Sample No:** 24-5950-020

**Date Collected:** 07/09/24  
**Time Collected:** 13:08  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/12/24				
Total Solids	82.72		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/16/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-21-03 (4-8)  
**Sample No:** 24-5950-020

**Date Collected:** 07/09/24  
**Time Collected:** 13:08  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/16/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/17/24				
Preparation Date: 07/11/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-21-03 (4-8)  
**Sample No:** 24-5950-020

**Date Collected:** 07/09/24  
**Time Collected:** 13:08  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/17/24		Preparation Date: 07/11/24		
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-21-03 (4-8)  
**Sample No:** 24-5950-020

**Date Collected:** 07/09/24  
**Time Collected:** 13:08  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/17/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/11/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/23/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 07/22/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.4	1.0	mg/kg	
Barium	48.6	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	0.6	0.5	mg/kg	
Calcium	50,400	50	mg/kg	
Chromium	18.1	0.5	mg/kg	
Cobalt	10.7	0.5	mg/kg	
Copper	22.7	0.5	mg/kg	
Iron	20,000	5.0	mg/kg	
Lead	10.8	0.5	mg/kg	
Magnesium	21,600	50	mg/kg	
Manganese	340	0.5	mg/kg	
Nickel	28.3	0.5	mg/kg	
Potassium	2,080	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	315	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	21.9	1.0	mg/kg	
Zinc	44.3	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/19/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/11/24 11:15				
pH @ 25°C, 1:2	8.04		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-21-03 (4-8)  
**Sample No:** 24-5950-020

**Date Collected:** 07/09/24  
**Time Collected:** 13:08  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**  
 Analysis Date: 07/12/24  
 TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A**  
 Analysis Date: 07/23/24 Preparation Date: 07/18/24

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	0.86	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: 07/19/24  
 Mercury < 0.0005 0.0005 mg/L

**SPLP Extraction Method: 1312**  
 Analysis Date: 07/12/24  
 SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A**  
 Analysis Date: 07/22/24 Preparation Date: 07/18/24

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	0.030	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.028	0.005	mg/L	
Iron	26.4	0.1	mg/L	
Lead	0.010	0.005	mg/L	





**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-21-03 (4-8)  
**Sample No:** 24-5950-020

**Date Collected:** 07/09/24  
**Time Collected:** 13:08  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 07/22/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 07/18/24		
Manganese	0.14	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	

<b>SPLP Mercury Method 1312</b> Analysis Date: 07/18/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.8	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.4	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	101.1	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	61	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	78	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	68	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	88	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	74	35 -	105
8270C	Phenol-d5 (surr)	%R:	84	50 -	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-23-02 (0-5)  
**Sample No:** 24-5950-023

**Date Collected:** 07/09/24  
**Time Collected:** 10:20  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/12/24				
Total Solids	78.79		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/17/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-23-02 (0-5)  
**Sample No:** 24-5950-023

**Date Collected:** 07/09/24  
**Time Collected:** 10:20  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/17/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/17/24				
Preparation Date: 07/11/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-23-02 (0-5)  
**Sample No:** 24-5950-023

**Date Collected:** 07/09/24  
**Time Collected:** 10:20  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/17/24		Preparation Date: 07/11/24		
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-23-02 (0-5)  
**Sample No:** 24-5950-023

**Date Collected:** 07/09/24  
**Time Collected:** 10:20  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/17/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/11/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/24/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 07/23/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.4	1.0	mg/kg	
Barium	131	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	0.8	0.5	mg/kg	
Calcium	3,490	50	mg/kg	
Chromium	23.5	0.5	mg/kg	
Cobalt	10.6	0.5	mg/kg	
Copper	22.0	0.5	mg/kg	
Iron	21,900	5.0	mg/kg	
Lead	11.6	0.5	mg/kg	
Magnesium	5,470	50	mg/kg	
Manganese	203	0.5	mg/kg	
Nickel	30.5	0.5	mg/kg	
Potassium	1,440	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	505	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	27.8	1.0	mg/kg	
Zinc	62.6	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/19/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/11/24 11:15				
pH @ 25°C, 1:2	8.06		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-23-02 (0-5)  
**Sample No:** 24-5950-023

**Date Collected:** 07/09/24  
**Time Collected:** 10:20  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/16/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 07/23/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/18/24				
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	0.4	0.1	mg/L	
Lead	0.006	0.005	mg/L	
Manganese	1.69	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/19/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/16/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 07/22/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/22/24				
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	0.030	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.023	0.005	mg/L	
Iron	21.0	0.1	mg/L	
Lead	0.010	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-23-02 (0-5)  
**Sample No:** 24-5950-023

**Date Collected:** 07/09/24  
**Time Collected:** 10:20  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/22/24		Preparation Date: 07/22/24		
Manganese	0.14	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	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/18/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>Low</i>	<i>High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 101.5	86	117	
5035A/8260B	d8-Toluene (Surr)	%R: 101.8	90	110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 102.5	77	120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 63.5	59	131	
8270C	2-Fluorobiphenyl (Surr)	%R: 80	45	112	
8270C	2-Fluorophenol (Surr)	%R: 75	41	84	
8270C	d14-Terphenyl (Surr)	%R: 91	56	120	
8270C	d5-Nitrobenzene (Surr)	%R: 73	35	105	
8270C	Phenol-d5 (surr)	%R: 93	50	100	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-27-01 (0-5)  
**Sample No:** 24-5950-034

**Date Collected:** 07/09/24  
**Time Collected:** 10:50  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/12/24				
Total Solids	68.81		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/17/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-27-01 (0-5)  
**Sample No:** 24-5950-034

**Date Collected:** 07/09/24  
**Time Collected:** 10:50  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/17/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>	
Analysis Date: 07/18/24				
Preparation Date: 07/11/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-27-01 (0-5)  
**Sample No:** 24-5950-034

**Date Collected:** 07/09/24  
**Time Collected:** 10:50  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/18/24		Preparation Date: 07/11/24		
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-27-01 (0-5)  
**Sample No:** 24-5950-034

**Date Collected:** 07/09/24  
**Time Collected:** 10:50  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/18/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/11/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/24/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 07/23/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.8	1.0	mg/kg	
Barium	136	0.5	mg/kg	
Beryllium	1.0	0.5	mg/kg	
Cadmium	0.9	0.5	mg/kg	
Calcium	5,460	50	mg/kg	
Chromium	21.8	0.5	mg/kg	
Cobalt	8.7	0.5	mg/kg	
Copper	19.7	0.5	mg/kg	
Iron	23,500	5.0	mg/kg	
Lead	14.3	0.5	mg/kg	
Magnesium	5,180	50	mg/kg	
Manganese	226	0.5	mg/kg	
Nickel	24.6	0.5	mg/kg	
Potassium	1,410	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	984	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	33.1	1.0	mg/kg	
Zinc	50.2	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/19/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/11/24 11:15				
pH @ 25°C, 1:2	7.86		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-27-01 (0-5)  
**Sample No:** 24-5950-034

**Date Collected:** 07/09/24  
**Time Collected:** 10:50  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**

Analysis Date: 07/16/24

TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A**  
 Analysis Date: 07/23/24 Preparation Date: 07/22/24

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	0.8	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	2.35	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: 07/19/24

Mercury < 0.0005 0.0005 mg/L

**SPLP Extraction Method: 1312**

Analysis Date: 07/16/24

SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A**  
 Analysis Date: 07/24/24 Preparation Date: 07/22/24

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	0.020	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.016	0.005	mg/L	
Iron	17.8	0.1	mg/L	
Lead	0.007	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.72, IDOT WO39A  
**Sample ID:** 1560V3-27-01 (0-5)  
**Sample No:** 24-5950-034

**Date Collected:** 07/09/24  
**Time Collected:** 10:50  
**Date Received:** 07/09/24  
**Date Reported:** 07/25/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 07/24/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 07/22/24		
Manganese	0.11	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	

<b>SPLP Mercury Method 1312</b> Analysis Date: 07/22/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	101.5	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.4	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	102	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	71.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	73	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	74	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	93	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	63	35 -	105
8270C	Phenol-d5 (surr)	%R:	89.5	50 -	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-06 (0-3)  
**Sample No:** 24-6393-033

**Date Collected:** 07/18/24  
**Time Collected:** 12:20  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/23/24				
Total Solids	78.44		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/31/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-06 (0-3)  
**Sample No:** 24-6393-033

**Date Collected:** 07/18/24  
**Time Collected:** 12:20  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/31/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 08/05/24				
Preparation Date: 07/30/24				
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-06 (0-3)  
**Sample No:** 24-6393-033

**Date Collected:** 07/18/24  
**Time Collected:** 12:20  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/05/24		Preparation Date: 07/30/24		
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	
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	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-06 (0-3)  
**Sample No:** 24-6393-033

**Date Collected:** 07/18/24  
**Time Collected:** 12:20  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 08/05/24		Preparation Method <b>3540C</b>		
		Preparation Date: 07/30/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/09/24		Preparation Method <b>3050B</b>		
		Preparation Date: 08/06/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.0	1.0	mg/kg	
Barium	114	0.5	mg/kg	
Beryllium	0.9	0.5	mg/kg	
Cadmium	0.5	0.5	mg/kg	
Calcium	3,830	50	mg/kg	
Chromium	22.2	0.5	mg/kg	
Cobalt	17.6	0.5	mg/kg	
Copper	22.9	0.5	mg/kg	
Iron	24,500	5.0	mg/kg	
Lead	21.6	0.5	mg/kg	
Magnesium	4,050	50	mg/kg	
Manganese	698	0.5	mg/kg	
Nickel	30.4	0.5	mg/kg	
Potassium	2,080	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	1,330	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	34.3	1.0	mg/kg	
Zinc	51.9	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 08/07/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/24/24 12:55				
pH @ 25°C, 1:2	8.26		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-06 (0-3)  
**Sample No:** 24-6393-033

**Date Collected:** 07/18/24  
**Time Collected:** 12:20  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 08/02/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/08/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/08/24				
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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 08/09/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 08/02/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/09/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/08/24				
Arsenic	0.025	0.010	mg/L	
Barium	1.6	1.0	mg/L	
Beryllium	0.011	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.353	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.283	0.005	mg/L	
Iron	286	0.1	mg/L	
Lead	0.097	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-06 (0-3)  
**Sample No:** 24-6393-033

**Date Collected:** 07/18/24  
**Time Collected:** 12:20  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 08/09/24		Preparation Date: 08/08/24		
Manganese	1.12	0.10	mg/L	
Nickel	0.3	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.8	0.1	mg/L	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 08/08/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	95.6	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.5	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	96.4	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	77	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	74	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	64.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	97	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	82	35 -	105
8270C	Phenol-d5 (surr)	%R:	82	50 -	100



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-06 (3-6)  
**Sample No:** 24-6393-034

**Date Collected:** 07/18/24  
**Time Collected:** 12:22  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/23/24				
Total Solids	79.88		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/31/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-06 (3-6)  
**Sample No:** 24-6393-034

**Date Collected:** 07/18/24  
**Time Collected:** 12:22  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/31/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/05/24				
Preparation Date: 07/30/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-06 (3-6)  
**Sample No:** 24-6393-034

**Date Collected:** 07/18/24  
**Time Collected:** 12:22  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/05/24		Preparation Date: 07/30/24		
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-06 (3-6)  
**Sample No:** 24-6393-034

**Date Collected:** 07/18/24  
**Time Collected:** 12:22  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 08/05/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/30/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/07/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 08/06/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.6	1.0	mg/kg	
Barium	63.4	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,520	50	mg/kg	
Chromium	19.0	0.5	mg/kg	
Cobalt	5.7	0.5	mg/kg	
Copper	21.4	0.5	mg/kg	
Iron	18,600	5.0	mg/kg	
Lead	11.4	0.5	mg/kg	
Magnesium	4,720	50	mg/kg	
Manganese	88.7	0.5	mg/kg	
Nickel	22.4	0.5	mg/kg	
Potassium	1,080	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,370	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	24.6	1.0	mg/kg	
Zinc	52.7	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 08/07/24				
Mercury	0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/24/24 12:55				
pH @ 25°C, 1:2	8.17		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-06 (3-6)  
**Sample No:** 24-6393-034

**Date Collected:** 07/18/24  
**Time Collected:** 12:22  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**  
 Analysis Date: 08/02/24  
 TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A**  
 Analysis Date: 08/08/24 Preparation Date: 08/08/24

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 Method: 7470A**  
 Analysis Date: 08/09/24  
 Mercury < 0.0005 0.0005 mg/L

**SPLP Extraction Method: 1312**  
 Analysis Date: 08/02/24  
 SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A**  
 Analysis Date: 08/09/24 Preparation Date: 08/08/24

Arsenic	0.097	0.010	mg/L	
Barium	1.5	1.0	mg/L	
Beryllium	0.015	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.440	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.390	0.005	mg/L	
Iron	358	0.1	mg/L	
Lead	0.214	0.005	mg/L	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-39-06 (3-6)  
**Sample No:** 24-6393-034

**Date Collected:** 07/18/24  
**Time Collected:** 12:22  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/09/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/08/24		
Manganese	1.05	0.10	mg/L	
Nickel	0.4	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	1.0	0.1	mg/L	

<b>SPLP Mercury Method 1312</b> Analysis Date: 08/08/24	<b>Method: 7470A</b>			
Mercury	0.0007	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.1	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.8	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	97.4	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	73	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	66	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	54.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	94	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	68	35 -	105
8270C	Phenol-d5 (surr)	%R:	71	50 -	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-41-01 (0-4)  
**Sample No:** 24-6393-005

**Date Collected:** 07/18/24  
**Time Collected:** 9:32  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/23/24				
Total Solids	82.54		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/26/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-41-01 (0-4)  
**Sample No:** 24-6393-005

**Date Collected:** 07/18/24  
**Time Collected:** 9:32  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/26/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 08/01/24				
Preparation Date: 07/29/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-41-01 (0-4)  
**Sample No:** 24-6393-005

**Date Collected:** 07/18/24  
**Time Collected:** 9:32  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/01/24		Preparation Date: 07/29/24		
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-41-01 (0-4)  
**Sample No:** 24-6393-005

**Date Collected:** 07/18/24  
**Time Collected:** 9:32  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 08/01/24		Preparation Method <b>3540C</b>		
		Preparation Date: 07/29/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/06/24		Preparation Method <b>3050B</b>		
		Preparation Date: 08/05/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	1.7	1.0	mg/kg	
Barium	58.6	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	86,000	50	mg/kg	
Chromium	20.8	0.5	mg/kg	
Cobalt	6.0	0.5	mg/kg	
Copper	17.9	0.5	mg/kg	
Iron	16,600	5.0	mg/kg	
Lead	12.8	0.5	mg/kg	
Magnesium	21,900	50	mg/kg	
Manganese	216	0.5	mg/kg	
Nickel	24.1	0.5	mg/kg	
Potassium	2,340	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	495	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	20.8	1.0	mg/kg	
Zinc	43.5	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 08/06/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/24/24 12:55				
pH @ 25°C, 1:2	8.54		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-41-01 (0-4)  
**Sample No:** 24-6393-005

**Date Collected:** 07/18/24  
**Time Collected:** 9:32  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 08/01/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/07/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/07/24				
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	0.38	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 08/07/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 08/01/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/08/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/07/24				
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	0.033	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.026	0.005	mg/L	
Iron	27.3	0.1	mg/L	
Lead	0.017	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-41-01 (0-4)  
**Sample No:** 24-6393-005

**Date Collected:** 07/18/24  
**Time Collected:** 9:32  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/08/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/07/24		
Manganese	0.15	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	

<b>SPLP Mercury Method 1312</b> Analysis Date: 08/07/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	102.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.3	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	96.2	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	71	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	74	45	112
8270C	2-Fluorophenol (Surr)	%R:	61.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	94	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	77	35	105
8270C	Phenol-d5 (surr)	%R:	77	50	100



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-41-01 (4-8.5)  
**Sample No:** 24-6393-006

**Date Collected:** 07/18/24  
**Time Collected:** 9:34  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/23/24				
Total Solids	69.78		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/26/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-41-01 (4-8.5)  
**Sample No:** 24-6393-006

**Date Collected:** 07/18/24  
**Time Collected:** 9:34  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/26/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 08/01/24				
Preparation Date: 07/30/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-41-01 (4-8.5)  
**Sample No:** 24-6393-006

**Date Collected:** 07/18/24  
**Time Collected:** 9:34  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/01/24		Preparation Date: 07/30/24		
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-41-01 (4-8.5)  
**Sample No:** 24-6393-006

**Date Collected:** 07/18/24  
**Time Collected:** 9:34  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 08/01/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/30/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/06/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 08/05/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	1.7	1.0	mg/kg	
Barium	111	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	0.6	0.5	mg/kg	
Calcium	99,400	50	mg/kg	
Chromium	13.7	0.5	mg/kg	
Cobalt	7.5	0.5	mg/kg	
Copper	27.1	0.5	mg/kg	
Iron	11,000	5.0	mg/kg	
Lead	11.0	0.5	mg/kg	
Magnesium	10,600	50	mg/kg	
Manganese	285	0.5	mg/kg	
Nickel	21.9	0.5	mg/kg	
Potassium	1,320	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	569	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	17.7	1.0	mg/kg	
Zinc	56.8	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 08/06/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/24/24 12:55				
pH @ 25°C, 1:2	8.20		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-41-01 (4-8.5)  
**Sample No:** 24-6393-006

**Date Collected:** 07/18/24  
**Time Collected:** 9:34  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**  
 Analysis Date: 08/01/24  
 TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A**  
 Analysis Date: 08/07/24 Preparation Date: 08/07/24

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	0.007	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	1.32	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	

**TCLP Mercury Method 1311 Method: 7470A**  
 Analysis Date: 08/07/24  
 Mercury < 0.0005 0.0005 mg/L

**SPLP Extraction Method: 1312**  
 Analysis Date: 08/01/24  
 SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A**  
 Analysis Date: 08/08/24 Preparation Date: 08/07/24

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	0.016	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.023	0.005	mg/L	
Iron	13.4	0.1	mg/L	
Lead	0.008	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-41-01 (4-8.5)  
**Sample No:** 24-6393-006

**Date Collected:** 07/18/24  
**Time Collected:** 9:34  
**Date Received:** 07/19/24  
**Date Reported:** 08/09/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/08/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/07/24		
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	

<b>SPLP Mercury Method 1312</b> Analysis Date: 08/07/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.8	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	96.3	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	78.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	76	45	112
8270C	2-Fluorophenol (Surr)	%R:	76	41	84
8270C	d14-Terphenyl (Surr)	%R:	93	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	87	35	105
8270C	Phenol-d5 (surr)	%R:	88	50	100



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-50-01 (0-5)  
**Sample No:** 24-6328-039

**Date Collected:** 07/17/24  
**Time Collected:** 13:46  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/22/24				
Total Solids	85.59		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/24/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-50-01 (0-5)  
**Sample No:** 24-6328-039

**Date Collected:** 07/17/24  
**Time Collected:** 13:46  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/24/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>	
Analysis Date: 08/04/24				
Preparation Date: 07/28/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-50-01 (0-5)  
**Sample No:** 24-6328-039

**Date Collected:** 07/17/24  
**Time Collected:** 13:46  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/04/24		Preparation Date: 07/28/24		
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	
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	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-50-01 (0-5)  
**Sample No:** 24-6328-039

**Date Collected:** 07/17/24  
**Time Collected:** 13:46  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>				
<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>		
Analysis Date: 08/04/24		Preparation Date: 07/28/24		
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	
<b>Total Metals</b>				
<b>Method: 6010C</b>		<b>Preparation Method 3050B</b>		
Analysis Date: 08/06/24		Preparation Date: 08/02/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.9	1.0	mg/kg	
Barium	64.9	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	54,500	50	mg/kg	
Chromium	20.7	0.5	mg/kg	
Cobalt	11.7	0.5	mg/kg	
Copper	22.8	0.5	mg/kg	
Iron	21,400	5.0	mg/kg	
Lead	20.3	0.5	mg/kg	
Magnesium	22,800	50	mg/kg	
Manganese	344	0.5	mg/kg	
Nickel	29.9	0.5	mg/kg	
Potassium	2,180	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	465	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	25.5	1.0	mg/kg	
Zinc	52.7	1.0	mg/kg	
<b>Total Mercury</b>				
<b>Method: 7471B</b>				
Analysis Date: 08/05/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>				
<b>Method: 9045D</b>				
Analysis Date: 07/23/24 10:15				
pH @ 25°C, 1:2	7.95		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-50-01 (0-5)  
**Sample No:** 24-6328-039

**Date Collected:** 07/17/24  
**Time Collected:** 13:46  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/31/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/07/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/05/24				
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	0.2	0.1	mg/L	
Lead	0.027	0.005	mg/L	
Manganese	6.02	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	0.3	0.1	mg/L	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 08/06/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/31/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/06/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/05/24				
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	< 0.005	0.005	mg/L	
Iron	2.5	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-50-01 (0-5)  
**Sample No:** 24-6328-039

**Date Collected:** 07/17/24  
**Time Collected:** 13:46  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 08/06/24		Preparation Date: 08/05/24		
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	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 08/05/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	100.9	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.6	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	98	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	84.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	87	45	112
8270C	2-Fluorophenol (Surr)	%R:	80	41	84
8270C	d14-Terphenyl (Surr)	%R:	100	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	94	35	105
8270C	Phenol-d5 (surr)	%R:	97.5	50	100



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-52-01 (0-5)  
**Sample No:** 24-6328-037

**Date Collected:** 07/17/24  
**Time Collected:** 13:36  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/22/24				
Total Solids	77.31		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/23/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-52-01 (0-5)  
**Sample No:** 24-6328-037

**Date Collected:** 07/17/24  
**Time Collected:** 13:36  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/23/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 08/04/24				
Preparation Date: 07/28/24				
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-52-01 (0-5)  
**Sample No:** 24-6328-037

**Date Collected:** 07/17/24  
**Time Collected:** 13:36  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/04/24		Preparation Date: 07/28/24		
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-52-01 (0-5)  
**Sample No:** 24-6328-037

**Date Collected:** 07/17/24  
**Time Collected:** 13:36  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 08/04/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/28/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 08/06/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 08/02/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.8	1.0	mg/kg	
Barium	103	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	9,470	50	mg/kg	
Chromium	22.6	0.5	mg/kg	
Cobalt	10.9	0.5	mg/kg	
Copper	33.4	0.5	mg/kg	
Iron	26,500	5.0	mg/kg	
Lead	21.0	0.5	mg/kg	
Magnesium	8,110	50	mg/kg	
Manganese	558	0.5	mg/kg	
Nickel	35.1	0.5	mg/kg	
Potassium	1,650	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	174	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	34.2	1.0	mg/kg	
Zinc	58.2	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 08/05/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/23/24 10:15				
pH @ 25°C, 1:2	8.27		Units	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-52-01 (0-5)  
**Sample No:** 24-6328-037

**Date Collected:** 07/17/24  
**Time Collected:** 13:36  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/31/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/07/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/05/24				
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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 08/06/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/31/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/06/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/05/24				
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	0.022	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.018	0.005	mg/L	
Iron	21.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-52-01 (0-5)  
**Sample No:** 24-6328-037

**Date Collected:** 07/17/24  
**Time Collected:** 13:36  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/06/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/05/24		
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	

<b>SPLP Mercury Method 1312</b> Analysis Date: 08/05/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	100.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	102	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	101.7	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	83.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	87	45	112
8270C	2-Fluorophenol (Surr)	%R:	71.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	103	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	91	35	105
8270C	Phenol-d5 (surr)	%R:	91.5	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-52-01 (5-10)  
**Sample No:** 24-6328-038

**Date Collected:** 07/17/24  
**Time Collected:** 13:38  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/22/24				
Total Solids	82.00		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/23/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-52-01 (5-10)  
**Sample No:** 24-6328-038

**Date Collected:** 07/17/24  
**Time Collected:** 13:38  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/23/24				
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	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 08/04/24				
Preparation Date: 07/28/24				
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-52-01 (5-10)  
**Sample No:** 24-6328-038

**Date Collected:** 07/17/24  
**Time Collected:** 13:38  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 08/04/24		Preparation Date: 07/28/24		
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	
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	



### Analytical Report

<b>Client:</b>	HUFF & HUFF INC.	<b>Date Collected:</b>	07/17/24
<b>Project ID:</b>	IDOT WO39A 81.0220714.72	<b>Time Collected:</b>	13:38
<b>Sample ID:</b>	1560V3-52-01 (5-10)	<b>Date Received:</b>	07/18/24
<b>Sample No:</b>	24-6328-038	<b>Date Reported:</b>	08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>				
<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>		
Analysis Date: 08/04/24		Preparation Date: 07/28/24		
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	
<b>Total Metals</b>				
<b>Method: 6010C</b>		<b>Preparation Method 3050B</b>		
Analysis Date: 08/06/24		Preparation Date: 08/02/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.5	1.0	mg/kg	
Barium	54.6	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	52,800	50	mg/kg	
Chromium	19.5	0.5	mg/kg	
Cobalt	13.4	0.5	mg/kg	
Copper	39.9	0.5	mg/kg	
Iron	22,200	5.0	mg/kg	
Lead	11.3	0.5	mg/kg	
Magnesium	23,000	50	mg/kg	
Manganese	604	0.5	mg/kg	
Nickel	36.7	0.5	mg/kg	
Potassium	2,370	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	195	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	25.5	1.0	mg/kg	
Zinc	48.9	1.0	mg/kg	
<b>Total Mercury</b>				
<b>Method: 7471B</b>				
Analysis Date: 08/05/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>				
<b>Method: 9045D</b>				
Analysis Date: 07/23/24 10:15				
pH @ 25°C, 1:2	8.23		Units	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-52-01 (5-10)  
**Sample No:** 24-6328-038

**Date Collected:** 07/17/24  
**Time Collected:** 13:38  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/31/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/07/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/05/24				
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	0.71	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 08/06/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/31/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/06/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 08/05/24				
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	0.011	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.010	0.005	mg/L	
Iron	8.9	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-52-01 (5-10)  
**Sample No:** 24-6328-038

**Date Collected:** 07/17/24  
**Time Collected:** 13:38  
**Date Received:** 07/18/24  
**Date Reported:** 08/08/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 08/06/24	<b>Method: 6010C</b>	<b>Preparation Method 3010A</b> Preparation Date: 08/05/24		
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	

<b>SPLP Mercury Method 1312</b> Analysis Date: 08/05/24	<b>Method: 7470A</b>			
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary: Surrogate Recovery</b>				<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.6	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.9	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	101.9	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	77.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	71	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	62.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	90	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	81	35 -	105
8270C	Phenol-d5 (surr)	%R:	84.5	50 -	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-76-01 (0-3)  
**Sample No:** 24-6106-021

**Date Collected:** 07/10/24  
**Time Collected:** 11:48  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/18/24				
Total Solids	78.58		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/18/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-76-01 (0-3)  
**Sample No:** 24-6106-021

**Date Collected:** 07/10/24  
**Time Collected:** 11:48  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/18/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/19/24				
Preparation Date: 07/17/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-76-01 (0-3)  
**Sample No:** 24-6106-021

**Date Collected:** 07/10/24  
**Time Collected:** 11:48  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/19/24		Preparation Date: 07/17/24		
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-76-01 (0-3)  
**Sample No:** 24-6106-021

**Date Collected:** 07/10/24  
**Time Collected:** 11:48  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/19/24		Preparation Method 3540C		
		Preparation Date: 07/17/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/25/24		Preparation Method 3050B		
		Preparation Date: 07/24/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.2	1.0	mg/kg	
Barium	132	0.5	mg/kg	
Beryllium	1.0	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	6,040	50	mg/kg	
Chromium	24.6	0.5	mg/kg	
Cobalt	11.4	0.5	mg/kg	
Copper	21.4	0.5	mg/kg	
Iron	25,600	5.0	mg/kg	
Lead	17.2	0.5	mg/kg	
Magnesium	5,700	50	mg/kg	
Manganese	414	0.5	mg/kg	
Nickel	27.3	0.5	mg/kg	
Potassium	2,010	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	677	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	35.8	1.0	mg/kg	
Zinc	56.0	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/24/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/16/24 10:30				
pH @ 25°C, 1:2	7.62		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-76-01 (0-3)  
**Sample No:** 24-6106-021

**Date Collected:** 07/10/24  
**Time Collected:** 11:48  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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**TCLP Extraction Method: 1311**

Analysis Date: 07/22/24

TCLP Extraction Complete

**TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A**

Analysis Date: 07/25/24

Preparation Date: 07/25/24

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 Method: 7470A**

Analysis Date: 07/24/24

Mercury < 0.0005 0.0005 mg/L

**SPLP Extraction Method: 1312**

Analysis Date: 07/22/24

SPLP Metals Extraction Complete

**SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A**

Analysis Date: 07/26/24

Preparation Date: 07/26/24

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	0.025	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.018	0.005	mg/L	
Iron	22.5	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-76-01 (0-3)  
**Sample No:** 24-6106-021

**Date Collected:** 07/10/24  
**Time Collected:** 11:48  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/26/24		Preparation Date: 07/26/24		
Manganese	0.11	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	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/24/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	101.4	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	104	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	109.1	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	69	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	80	45	112
8270C	2-Fluorophenol (Surr)	%R:	67.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	104	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	89	35	105
8270C	Phenol-d5 (surr)	%R:	92.5	50	100



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-82-02 (0-3)  
**Sample No:** 24-6106-031

**Date Collected:** 07/10/24  
**Time Collected:** 13:30  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/18/24				
Total Solids	80.27		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/18/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-82-02 (0-3)  
**Sample No:** 24-6106-031

**Date Collected:** 07/10/24  
**Time Collected:** 13:30  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/18/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/21/24				
Preparation Date: 07/17/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-82-02 (0-3)  
**Sample No:** 24-6106-031

**Date Collected:** 07/10/24  
**Time Collected:** 13:30  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/21/24		Preparation Date: 07/17/24		
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	
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	





**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-82-02 (0-3)  
**Sample No:** 24-6106-031

**Date Collected:** 07/10/24  
**Time Collected:** 13:30  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/21/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/17/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/26/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 07/25/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.2	1.0	mg/kg	
Barium	109	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	5,330	50	mg/kg	
Chromium	16.1	0.5	mg/kg	
Cobalt	8.6	0.5	mg/kg	
Copper	18.2	0.5	mg/kg	
Iron	15,900	5.0	mg/kg	
Lead	16.4	0.5	mg/kg	
Magnesium	3,430	50	mg/kg	
Manganese	164	0.5	mg/kg	
Nickel	18.9	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	1,230	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	25.6	1.0	mg/kg	
Zinc	47.5	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/25/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/16/24 10:30				
pH @ 25°C, 1:2	8.67		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-82-02 (0-3)  
**Sample No:** 24-6106-031

**Date Collected:** 07/10/24  
**Time Collected:** 13:30  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/22/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 07/25/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/25/24				
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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/25/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/22/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 07/29/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/26/24				
Arsenic	0.030	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	0.069	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.084	0.005	mg/L	
Iron	85.4	0.1	mg/L	
Lead	0.036	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-82-02 (0-3)  
**Sample No:** 24-6106-031

**Date Collected:** 07/10/24  
**Time Collected:** 13:30  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/29/24		Preparation Date: 07/26/24		
Manganese	0.85	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	0.2	0.1	mg/L	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/25/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
Method	Analyte	QC Result	Low	High	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 103	86	117	
5035A/8260B	d8-Toluene (Surr)	%R: 103.7	90	110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 110	77	120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 69.5	59	131	
8270C	2-Fluorobiphenyl (Surr)	%R: 82	45	112	
8270C	2-Fluorophenol (Surr)	%R: 65.5	41	84	
8270C	d14-Terphenyl (Surr)	%R: 103	56	120	
8270C	d5-Nitrobenzene (Surr)	%R: 80	35	105	
8270C	Phenol-d5 (surr)	%R: 83	50	100	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-82-02 (3-6)  
**Sample No:** 24-6106-032

**Date Collected:** 07/10/24  
**Time Collected:** 13:35  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/18/24				
Total Solids	85.21		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/18/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-82-02 (3-6)  
**Sample No:** 24-6106-032

**Date Collected:** 07/10/24  
**Time Collected:** 13:35  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/18/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/21/24				
Preparation Date: 07/17/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-82-02 (3-6)  
**Sample No:** 24-6106-032

**Date Collected:** 07/10/24  
**Time Collected:** 13:35  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/21/24		Preparation Date: 07/17/24		
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-82-02 (3-6)  
**Sample No:** 24-6106-032

**Date Collected:** 07/10/24  
**Time Collected:** 13:35  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/21/24		Preparation Method 3540C		
		Preparation Date: 07/17/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/26/24		Preparation Method 3050B		
		Preparation Date: 07/25/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.5	1.0	mg/kg	
Barium	63.0	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	0.6	0.5	mg/kg	
Calcium	52,000	50	mg/kg	
Chromium	18.5	0.5	mg/kg	
Cobalt	15.0	0.5	mg/kg	
Copper	24.4	0.5	mg/kg	
Iron	20,700	5.0	mg/kg	
Lead	13.1	0.5	mg/kg	
Magnesium	21,400	50	mg/kg	
Manganese	592	0.5	mg/kg	
Nickel	35.7	0.5	mg/kg	
Potassium	1,770	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	936	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	25.0	1.0	mg/kg	
Zinc	41.6	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/25/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/16/24 10:30				
pH @ 25°C, 1:2	8.91		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-82-02 (3-6)  
**Sample No:** 24-6106-032

**Date Collected:** 07/10/24  
**Time Collected:** 13:35  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/22/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 07/25/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/25/24				
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	1.52	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/25/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/22/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 07/29/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/26/24				
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	0.036	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.029	0.005	mg/L	
Iron	31.2	0.1	mg/L	
Lead	0.010	0.005	mg/L	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-82-02 (3-6)  
**Sample No:** 24-6106-032

**Date Collected:** 07/10/24  
**Time Collected:** 13:35  
**Date Received:** 07/11/24  
**Date Reported:** 07/29/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/29/24		Preparation Date: 07/26/24		
Manganese	0.15	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	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/25/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	102.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	104.1	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	109.6	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	70	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	79	45	112
8270C	2-Fluorophenol (Surr)	%R:	73.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	100	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	85	35	105
8270C	Phenol-d5 (surr)	%R:	90	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-87-01 (0-5)  
**Sample No:** 24-6142-020

**Date Collected:** 07/11/24  
**Time Collected:** 11:10  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/19/24				
Total Solids	77.56		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/19/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-87-01 (0-5)  
**Sample No:** 24-6142-020

**Date Collected:** 07/11/24  
**Time Collected:** 11:10  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/19/24				
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	

<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>	
Analysis Date: 07/23/24		Preparation Date: 07/19/24			
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		
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		



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-87-01 (0-5)  
**Sample No:** 24-6142-020

**Date Collected:** 07/11/24  
**Time Collected:** 11:10  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/23/24		Preparation Date: 07/19/24		
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-87-01 (0-5)  
**Sample No:** 24-6142-020

**Date Collected:** 07/11/24  
**Time Collected:** 11:10  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 07/23/24				Preparation Date: 07/19/24
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		<b>Preparation Method 3050B</b>
Analysis Date: 07/29/24				Preparation Date: 07/25/24
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.3	1.0	mg/kg	
Barium	108	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	21,900	50	mg/kg	
Chromium	23.3	0.5	mg/kg	
Cobalt	9.3	0.5	mg/kg	
Copper	27.3	0.5	mg/kg	
Iron	22,800	5.0	mg/kg	
Lead	38.0	0.5	mg/kg	
Magnesium	12,100	50	mg/kg	
Manganese	308	0.5	mg/kg	
Nickel	28.7	0.5	mg/kg	
Potassium	2,110	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	707	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	31.8	1.0	mg/kg	
Zinc	66.9	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/26/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/17/24 11:30				
pH @ 25°C, 1:2	8.14		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-87-01 (0-5)  
**Sample No:** 24-6142-020

**Date Collected:** 07/11/24  
**Time Collected:** 11:10  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/24/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/01/24				
<b>Preparation Method 3010A</b> Preparation Date: 07/30/24				
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	0.47	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/30/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/24/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/01/24				
<b>Preparation Method 3010A</b> Preparation Date: 07/30/24				
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	0.035	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.026	0.005	mg/L	
Iron	30.0	0.1	mg/L	
Lead	0.020	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-87-01 (0-5)  
**Sample No:** 24-6142-020

**Date Collected:** 07/11/24  
**Time Collected:** 11:10  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 08/01/24				Preparation Date: 07/30/24
Manganese	0.11	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	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/31/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.4	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	100	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	96.6	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	106.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	71	45	112
8270C	2-Fluorophenol (Surr)	%R:	73.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	99	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	80	35	105
8270C	Phenol-d5 (surr)	%R:	79.5	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-87-02 (0-5)  
**Sample No:** 24-6142-021

**Date Collected:** 07/11/24  
**Time Collected:** 11:00  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/19/24				
Total Solids	72.91		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/19/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-87-02 (0-5)  
**Sample No:** 24-6142-021

**Date Collected:** 07/11/24  
**Time Collected:** 11:00  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/19/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>	
Analysis Date: 07/25/24				
Preparation Date: 07/19/24				
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	
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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-87-02 (0-5)  
**Sample No:** 24-6142-021

**Date Collected:** 07/11/24  
**Time Collected:** 11:00  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/25/24		Preparation Date: 07/19/24		
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	
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	



### Analytical Report

<b>Client:</b>	HUFF & HUFF INC.	<b>Date Collected:</b>	07/11/24
<b>Project ID:</b>	IDOT WO39A 81.0220714.72	<b>Time Collected:</b>	11:00
<b>Sample ID:</b>	1560V3-87-02 (0-5)	<b>Date Received:</b>	07/12/24
<b>Sample No:</b>	24-6142-021	<b>Date Reported:</b>	08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/25/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/19/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/29/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 07/25/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.4	1.0	mg/kg	
Barium	114	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	4,880	50	mg/kg	
Chromium	22.4	0.5	mg/kg	
Cobalt	11.9	0.5	mg/kg	
Copper	21.4	0.5	mg/kg	
Iron	23,300	5.0	mg/kg	
Lead	24.0	0.5	mg/kg	
Magnesium	4,130	50	mg/kg	
Manganese	458	0.5	mg/kg	
Nickel	27.5	0.5	mg/kg	
Potassium	2,330	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	1,530	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	33.9	1.0	mg/kg	
Zinc	55.6	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/26/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/17/24 11:30				
pH @ 25°C, 1:2	8.16		Units	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-87-02 (0-5)  
**Sample No:** 24-6142-021

**Date Collected:** 07/11/24  
**Time Collected:** 11:00  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/25/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/01/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/31/24				
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	0.3	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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/31/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/25/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/01/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/31/24				
Arsenic	0.016	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	0.120	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.072	0.005	mg/L	
Iron	106	0.1	mg/L	
Lead	0.053	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** 1560V3-87-02 (0-5)  
**Sample No:** 24-6142-021

**Date Collected:** 07/11/24  
**Time Collected:** 11:00  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 08/01/24				Preparation Date: 07/31/24
Manganese	0.50	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	0.3	0.1	mg/L	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/31/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	96.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	74	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	85	45	112
8270C	2-Fluorophenol (Surr)	%R:	73.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	102	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	85	35	105
8270C	Phenol-d5 (surr)	%R:	87.5	50	100



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** DUP-08  
**Sample No:** 24-6142-027

**Date Collected:** 07/11/24  
**Time Collected:** 10:05  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 07/19/24				
Total Solids	77.27		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 07/22/24				
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	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** DUP-08  
**Sample No:** 24-6142-027

**Date Collected:** 07/11/24  
**Time Collected:** 10:05  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>	<b>Method: 5035A/8260B</b>			
Analysis Date: 07/22/24				
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	

<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/22/24				
Preparation Date: 07/19/24				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** DUP-08  
**Sample No:** 24-6142-027

**Date Collected:** 07/11/24  
**Time Collected:** 10:05  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 07/22/24		Preparation Date: 07/19/24		
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	
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	





**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** DUP-08  
**Sample No:** 24-6142-027

**Date Collected:** 07/11/24  
**Time Collected:** 10:05  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		
Analysis Date: 07/22/24		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/19/24		
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	
<b>Total Metals</b>		<b>Method: 6010C</b>		
Analysis Date: 07/29/24		<b>Preparation Method 3050B</b>		
		Preparation Date: 07/25/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.1	1.0	mg/kg	
Barium	116	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	12,000	50	mg/kg	
Chromium	20.9	0.5	mg/kg	
Cobalt	10.9	0.5	mg/kg	
Copper	23.2	0.5	mg/kg	
Iron	20,500	5.0	mg/kg	
Lead	76.4	0.5	mg/kg	
Magnesium	6,990	50	mg/kg	
Manganese	486	0.5	mg/kg	
Nickel	25.0	0.5	mg/kg	
Potassium	2,210	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	1,420	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	30.9	1.0	mg/kg	
Zinc	69.4	1.0	mg/kg	
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 07/26/24				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D</b>		
Analysis Date: 07/17/24 11:30				
pH @ 25°C, 1:2	8.12		Units	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** DUP-08  
**Sample No:** 24-6142-027

**Date Collected:** 07/11/24  
**Time Collected:** 10:05  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Extraction Method: 1311</b>				
Analysis Date: 07/25/24				
TCLP Extraction	Complete			
<b>TCLP Metals Method 1311 Method: 6010C</b>				
Analysis Date: 08/01/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/31/24				
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	
<b>TCLP Mercury Method 1311 Method: 7470A</b>				
Analysis Date: 07/31/24				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction Method: 1312</b>				
Analysis Date: 07/25/24				
SPLP Metals Extraction	Complete			
<b>SPLP Metals Method 1312 Method: 6010C</b>				
Analysis Date: 08/01/24				
<b>Preparation Method 3010A</b>				
Preparation Date: 07/31/24				
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	0.075	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.050	0.005	mg/L	
Iron	62.3	0.1	mg/L	
Lead	0.114	0.005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** IDOT WO39A 81.0220714.72  
**Sample ID:** DUP-08  
**Sample No:** 24-6142-027

**Date Collected:** 07/11/24  
**Time Collected:** 10:05  
**Date Received:** 07/12/24  
**Date Reported:** 08/01/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 08/01/24		Preparation Date: 07/31/24		
Manganese	0.30	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	0.2	0.1	mg/L	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 07/31/24				
Mercury	< 0.0005	0.0005	mg/L	

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.9	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.3	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	101.3	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	68.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	75	45	112
8270C	2-Fluorophenol (Surr)	%R:	63.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	85	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	78	35	105
8270C	Phenol-d5 (surr)	%R:	83.5	50	100