

*IDOT 199-014 WO#05 (H&H)
IL 47 and IL 176 Lakewood PSI
Attachment D - LPC-663 Package*

APPENDIX D

LPC-663 CCDD DOCUMENTS



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 05 IL RT 47/IL RT 176 - PSI Office Phone Number, if available: 847-705-4122

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

See attachment for a list of physical site locations

City: Lakewood State: IL Zip Code: 60098

County: McHenry Township: _____

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

Latitude: 42.24997 Longitude: - 88.42758

(Decimal Degrees)

(-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

Google Earth - Approximate center of multiple addresses

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

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

Estimated Volume of debris (cu. Yd.): 66,000

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Dept of Transportation, District 1

Street Address: 201 W. Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Dept of Transportation, District 1

Street Address: 201 W. Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

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

Refer to Figure 4-1.1 through 4-1.15 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 #22-2001, #22-2117, #22-2256, #22-2330, #22-2365, #22-2423, #22-2456, #22-2550, and #22-2551. 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:

Sep 29, 2023
Date:



LPC-663
Uncontaminated Soil Certification Form
Attachment

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

ISGS Site No.	Site Name and address
3919-COV-7	Vacant Land (4400-4500 Blocks of S. IL 47)
3919-COV-9	Residence (4420 S. IL 47)
3919-COV-10	Whispering Winds Kennel and Residence (4506 S. IL 47)
3919-COV-11	Running Acres (4518 S. IL 47)
3919-COV-12	Residence (4603 S. IL 47)
3919-COV-13	Agricultural Land (4700-4900 Blocks of S. IL 47)
3919-COV-14	Eddie's Landscaping & Supplies (4617 S. IL 47)
3919-COV-15	Residence (4707 S. IL 47)
3919-COV-16	Vacant Land (4700 Block of S. IL 47)
3919-COV-17	Vacant Land (12600 Block of S. IL 176)
3919-COV-18	Agricultural Land (12400-12800 Block of S. IL 176)
3919-COV-22	ComEd substation (12414 Block of S. IL 176)
3919-COV-30	Vacant Land (12700 Block of S. IL 176)
3919-COV-40	Vacant Land (5100 Block of S. IL 47)
3919-COV-41	Agricultural Land (5100-5800 Blocks of S. IL 47)
3919-COV-47	Agricultural Land (11700-12300 Blocks of Pleasant Valley Road)
3919-COV-48	Farmstead (11717 of Pleasant Valley Road)
3919-COV-49	Crystal Woods Golf Course (5915 S. IL 47)
3919-COV-50	Residence (6007 S. IL 47)
3919-COV-51	Vacant Land (11300-11500 Blocks of IL 176)
3919-COV-52	Craig Woods Golf Course (5900 S. IL 47)
3919-COV-53	Residence (6002 S. IL 47)
3919-COV-54	Vacant Land (6000 Blocks of S. IL 47)
3919-COV-56	Commercial Buildings (11100 IL 176)
3919-COV-57	Beyond Stable Farms (11117 IL 176)
3919-COV-58	Agricultural Land (11100 Block of IL 176)
3919-COV-59	Agricultural Land (6100-6500 Blocks of S. IL 47)

LPC-663

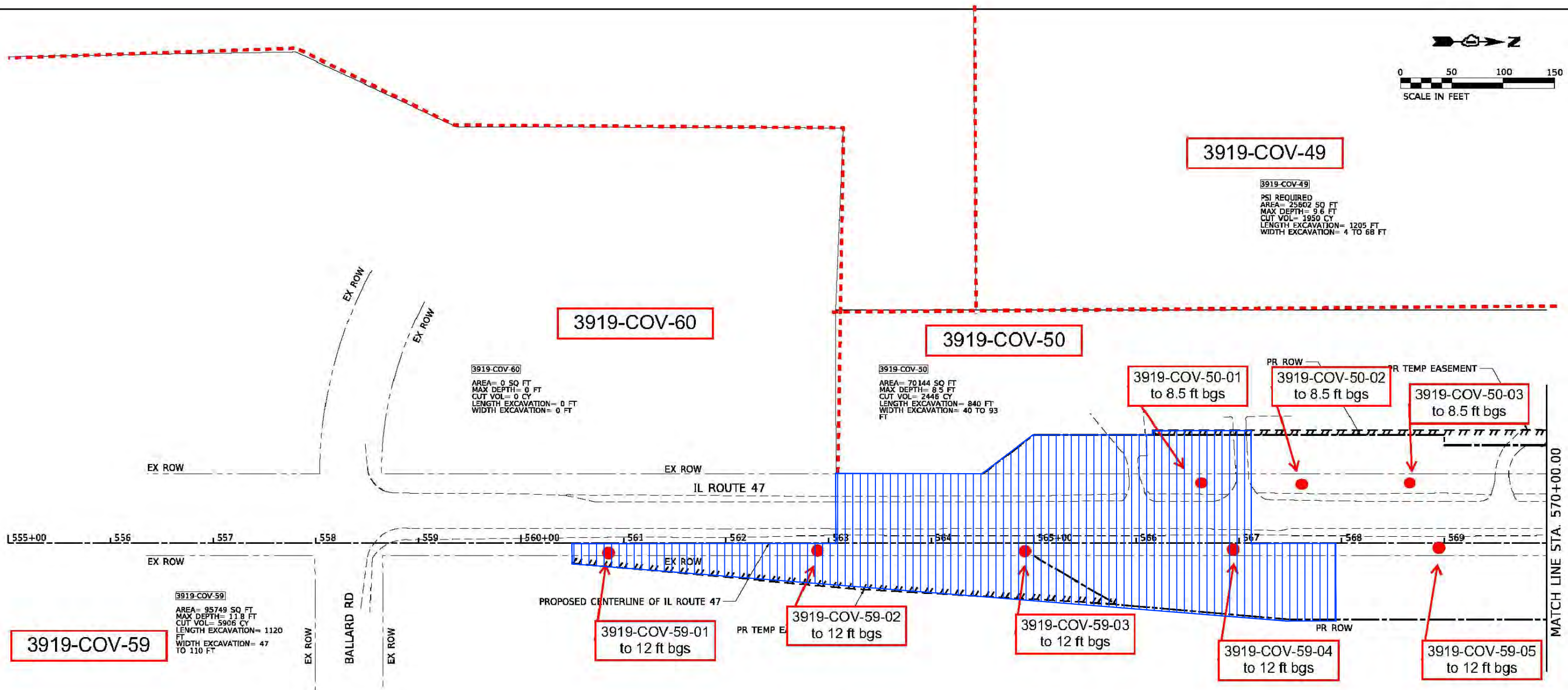
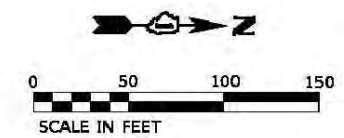
Uncontaminated Soil Certification Form

Attachment

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

ISGS Boring No.	Approximate Stationing
3919-COV-7-01	IL Rt. 47 Sta. 660+90, 30 Left
3919-COV-7-02	IL Rt. 47 Sta. 662+90, 30 Left
3919-COV-7-03	IL Rt. 47 Sta. 664+90, 30 Left
3919-COV-9-01	IL Rt. 47 Sta. 666+70, 30 Right
3919-COV-10-01	IL Rt. 47 Sta. 663+30, 30 Right
3919-COV-10-02	IL Rt. 47 Sta. 665+30, 30 Right
3919-COV-11-02	IL Rt. 47 Sta. 662+20, 30 Right
3919-COV-12-01	IL Rt. 47 Sta. 658+80, 20 Left
3919-COV-13-01	IL Rt. 47 Sta. 637+10, 40 Right
3919-COV-13-02	IL Rt. 47 Sta. 639+10, 40 Right
3919-COV-13-04	IL Rt. 47 Sta. 643+20, 40 Right
3919-COV-13-05	IL Rt. 47 Sta. 645+20, 40 Right
3919-COV-13-06	IL Rt. 47 Sta. 647+30, 40 Right
3919-COV-13-07	IL Rt. 47 Sta. 655+40, 40 Right
3919-COV-13-08	IL Rt. 47 Sta. 657+50, 30 Right
3919-COV-13-10	IL Rt. 47 Sta. 641+00, 70 Left
3919-COV-13-11	IL Rt. 47 Sta. 643+00, 70 Left
3919-COV-13-12	IL Rt. 47 Sta. 645+00, 70 Left
3919-COV-13-13	IL Rt. 47 Sta. 647+00, 70 Left
3919-COV-13-14	IL Rt. 47 Sta. 649+00, 70 Left
3919-COV-13-16	IL Rt. 47 Sta. 653+00, 70 Left
3919-COV-13-17	IL Rt. 176 Sta. 416+80, 20 Left
3919-COV-13-19	IL Rt. 176 Sta. 420+90, 20 Left
3919-COV-13-20	IL Rt. 176 Sta. 422+90, 20 Left
3919-COV-14-02	IL Rt. 47 Sta. 657+30, 20 Left
3919-COV-14-03	IL Rt. 47 Sta. 657+80, 20 Left
3919-COV-15-01	IL Rt. 47 Sta. 655+00, 70 Left
3919-COV-15-02	IL Rt. 47 Sta. 656+00, 70 Left
3919-COV-16-01	IL Rt. 47 Sta. 649+40, 40 Right
3919-COV-17-01	IL Rt. 47 Sta. 635+10, 70 Left
3919-COV-17-02	IL Rt. 47 Sta. 637+10, 70 Left
3919-COV-17-04	IL Rt. 176 Sta. 424+00, 10 Left
3919-COV-18-01	IL Rt. 176 Sta. 400+00, 50 Right
3919-COV-18-02	IL Rt. 176 Sta. 398+00, 50 Right
3919-COV-22-01	IL Rt. 176 Sta. 402+00, 20 Left
3919-COV-22-04	IL Rt. 176 Sta. 408+00, 20 Left
3919-COV-22-07	IL Rt. 176 Sta. 414+10, 20 Left
3919-COV-30-03	IL Rt. 176 Sta. 407+50, 80 Right
3919-COV-30-06	IL Rt. 176 Sta. 413+60, 80 Right
3919-COV-30-07	IL Rt. 176 Sta. 415+60, 80 Right
3919-COV-30-08	IL Rt. 176 Sta. 417+70, 80 Right
3919-COV-30-09	IL Rt. 176 Sta. 419+70, 80 Right
3919-COV-30-12	Swanson Rd Sta. 506+80, 00 Left
3919-COV-40-01	IL Rt. 47 Sta. 633+10, 30 Right
3919-COV-40-02	IL Rt. 47 Sta. 635+10, 40 Right
3919-COV-41-02	Existing Pleasant Valley Road Sta. 410+00, 40 Left

ISGS Boring No.	Approximate Stationing
3919-COV-41-05	IL Rt. 47 Sta. 615+30, 20 Left
3919-COV-41-14	IL Rt. 47 Sta. 627+60, 20 Right
3919-COV-41-20	IL Rt. 47 Sta. 615+30, 20 Right
3919-COV-41-24	IL Rt. 47 Sta. 607+10, 20 Right
3919-COV-41-27	IL Rt. 47 Sta. 601+10, 20 Right
3919-COV-41-28	IL Rt. 47 Sta. 599+10, 20 Right
3919-COV-41-31	IL Rt. 47 Sta. 607+20, 20 Left
3919-COV-41-32	IL Rt. 47 Sta. 605+20, 20 Left
3919-COV-41-33	IL Rt. 47 Sta. 603+10, 20 Left
3919-COV-41-35	IL Rt. 47 Sta. 599+10, 20 Left
3919-COV-41-36	IL Rt. 47 Sta. 597+10, 20 Left
3919-COV-47-01	IL Rt. 47 Sta. 588+00, 100 Left
3919-COV-47-03	IL Rt. 176 Sta. 295+10, 10 Right
3919-COV-47-09	IL Rt. 176 Sta. 283+10, 10 Left
3919-COV-47-10	IL Rt. 176 Sta. 282+50, 00 Right
3919-COV-47-12	IL Rt. 176 Sta. 277+40, 30 Right
3919-COV-48-01	Existing Pleasant Valley Road Sta. 408+00, 40 Right
3919-COV-48-05	IL Rt. 47 Sta. 594+50, 60 Left
3919-COV-49-01	IL Rt. 47 Sta. 573+00, 50 Left
3919-COV-49-02	IL Rt. 47 Sta. 574+00, 50 Left
3919-COV-49-05	IL Rt. 47 Sta. 577+00, 50 Left
3919-COV-49-06	IL Rt. 47 Sta. 578+00, 50 Left
3919-COV-49-08	IL Rt. 47 Sta. 580+00, 50 Left
3919-COV-50-01	IL Rt. 47 Sta. 566+75, 60 Left
3919-COV-51-02	IL Rt. 47 Sta. 567+60, 60 Left
3919-COV-51-08	IL Rt. 176 Sta. 308+30, 50 Left
3919-COV-52-01	IL Rt. 47 Sta. 580+60, 00 Right
3919-COV-52-03	IL Rt. 47 Sta. 582+70, 00 Right
3919-COV-52-06	IL Rt. 47 Sta. 586+10, 20 Right
3919-COV-52-07	IL Rt. 47 Sta. 587+10, 30 Right
3919-COV-52-11	IL Rt. 176 Sta. 303+20, 10 Right
3919-COV-52-12	IL Rt. 176 Sta. 304+30, 10 Right
3919-COV-53-01	IL Rt. 47 Sta. 576+50, 10 Right
3919-COV-54-02	IL Rt. 47 Sta. 575+00, 10 Right
3919-COV-56-06	IL Rt. 176 Sta. 323+70, 50 Left
3919-COV-57-01	IL Rt. 176 Sta. 313+00, 35 Right
3919-COV-57-02	IL Rt. 176 Sta. 315+00, 35 Right
3919-COV-57-03	IL Rt. 176 Sta. 317+00, 35 Right
3919-COV-57-04	IL Rt. 176 Sta. 319+00, 35 Right
3919-COV-57-05	IL Rt. 176 Sta. 321+10, 30 Right
3919-COV-58-01	IL Rt. 176 Sta. 311+00, 40 Right
3919-COV-59-01	IL Rt. 47 Sta. 560+90, 10 Right
3919-COV-59-02	IL Rt. 47 Sta. 562+90, 10 Right
3919-COV-59-03	IL Rt. 47 Sta. 564+90, 10 Right
3919-COV-59-04	IL Rt. 47 Sta. 566+90, 10 Right
3919-COV-59-06	IL Rt. 47 Sta. 572+00, 10 Right



LEGEND

- SOIL BORING LOCATION
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < BACKGROUND). MATERIAL MAY BE MANAGED ON SITE OR AS NON-SPECIAL WASTE (a(1)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDD/USFO WITHIN A MSA COUNTY (a(2)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA OR CHICAGO CORPORATE LIMITS). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDD/USFO WITHIN A MSA COUNTY EXCLUDING CHICAGO OR WITHIN CHICAGO CORPORATE LIMITS (a(3)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA COUNTY EXCLUDING CHICAGO). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDD/USFO FACILITY WITHIN A MSA COUNTY EXCLUDING CHICAGO (a(4)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS. MATERIAL MAY BE MANAGED AS A NON-SPECIAL WASTE (a(5)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO NOT EXCEED MOST STRINGENT MAC VALUE WITH SOIL pH OUTSIDE RANGE 6.25-9.0 TO BE MANAGED ON-SITE OR OFF-SITE AS UNCONTAMINATED SOIL, CANNOT BE TAKEN TO A CCDD/USFO (b(1)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED TACO TIER 1 CONSTRUCTION WORKERS REFERENCE CONCENTRATIONS.

AREAS WITHOUT HATCHING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.

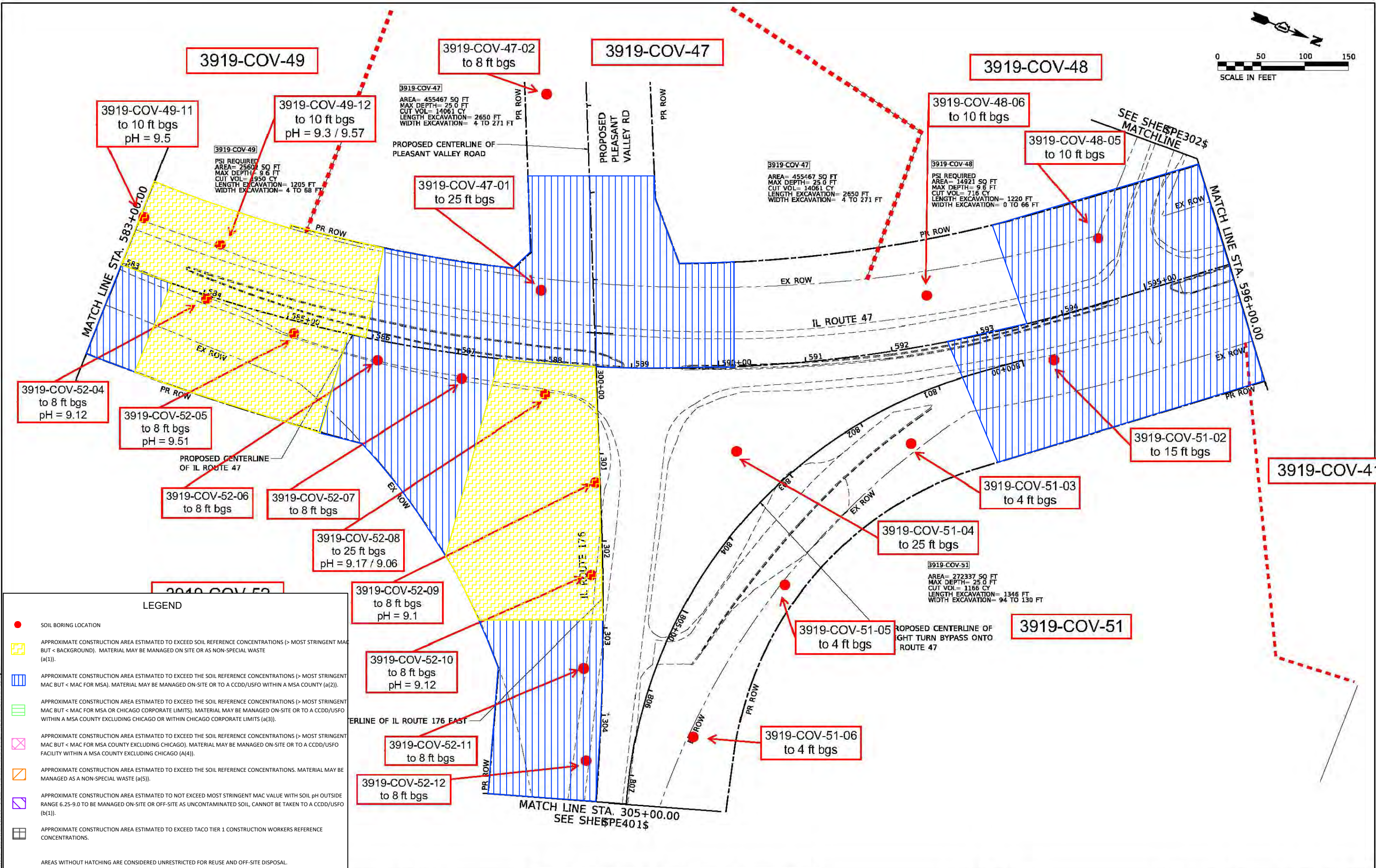
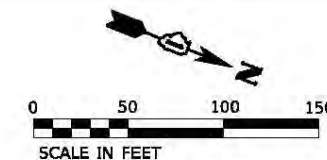
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 STRAND ASSOCIATES

 1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200	USER NAME = StevenB	DESIGNED = MAG	REVISED =
	PLOT SCALE = 100.0000' / 1 in.	DRAWN = DJW	REVISED =
	PLOT DATE = 4/12/2021	CHECKED = SJG	REVISED =
		DATE = 4/20/2021	REVISED =

Figure 4-1.1 Extent of Potentially Impacted Soil
 Huff & Huff, Inc. 199-014 WO #5

IL ROUTE 47	
PESA RESPONSE EXHIBIT	
SCALE: 1" = 50'	SHEET 1 OF 8 SHEETS
STA. 555+00.00 TO STA. 570+00.00	

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105-N-2(13)	MCHENRY	16	\$PE1015
			CONTRACT NO. 62B43	
ILLINOIS FED. AID PROJECT				



LEGEND

- SOIL BORING LOCATION
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < BACKGROUND). MATERIAL MAY BE MANAGED ON-SITE OR AS NON-SPECIAL WASTE (a(1)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDD/USFO WITHIN A MSA COUNTY (a(2)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA OR CHICAGO CORPORATE LIMITS). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDD/USFO WITHIN A MSA COUNTY EXCLUDING CHICAGO OR WITHIN CHICAGO CORPORATE LIMITS (a(3)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA COUNTY EXCLUDING CHICAGO). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDD/USFO FACILITY WITHIN A MSA COUNTY EXCLUDING CHICAGO (a(4)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS. MATERIAL MAY BE MANAGED AS A NON-SPECIAL WASTE (a(5)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO NOT EXCEED MOST STRINGENT MAC VALUE WITH SOIL pH OUTSIDE RANGE 6.25-9.0 TO BE MANAGED ON-SITE OR OFF-SITE AS UNCONTAMINATED SOIL, CANNOT BE TAKEN TO A CCDD/USFO (b(1)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED TACO TIER 1 CONSTRUCTION WORKERS REFERENCE CONCENTRATIONS.

AREAS WITHOUT HATCHING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.

Figure 4-1.3 Soil Extent of Potentially Impacted Soil
Huff & Huff, Inc. 199-014 WO #5

**IL ROUTE 47
PESA RESPONSE EXHIBIT**

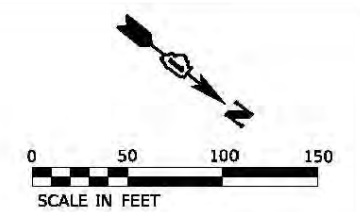
STRAND ASSOCIATES
1170 SOUTH HOBBS ROAD
JOLET, ILLINOIS 60431
(815) 744-4200

USER NAME = StevenB
DESIGNED - MAG
DRAWN - DJW
CHECKED - SJG
DATE - 4/20/2021

REVISI...
REVISI...
REVISI...
REVISI...

SCALE: 1" = 50'
SHEET 3 OF 8 SHEETS
STA. 583+00.00 TO STA. 596+00.00

F.A.P. RTE. 326
SECTION 105-N-2(15)
COUNTY MCHENRY
TOTAL SHEETS 16
SHEET NO. 1038
CONTRACT NO. 62B43
ILLINOIS FED. AID PROJECT



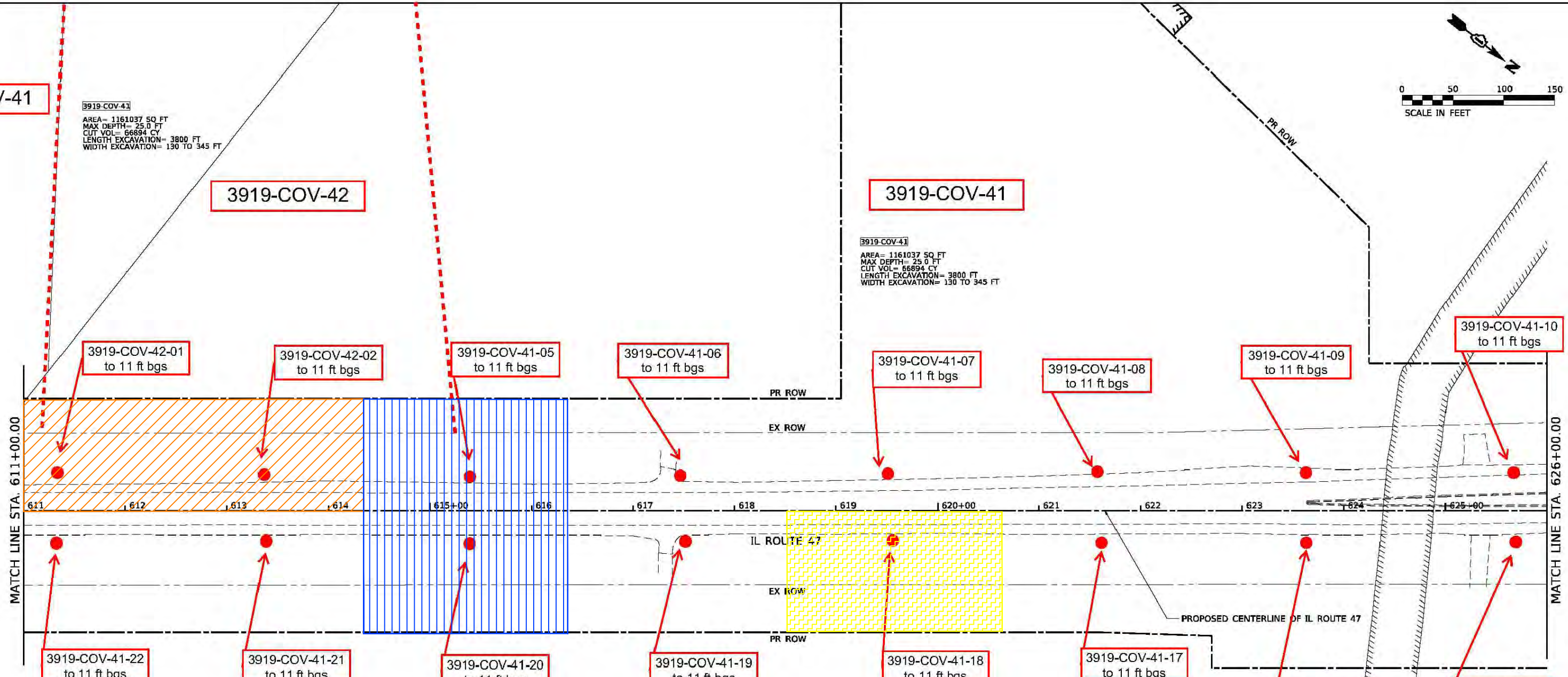
3919-COV-41

3919-COV-41
 AREA= 1161037 SQ FT
 MAX DEPTH= 25.0 FT
 CUT VOL= 66894 CY
 LENGTH EXCAVATION= 3800 FT
 WIDTH EXCAVATION= 130 TO 345 FT

3919-COV-42

3919-COV-41

3919-COV-41
 AREA= 1161037 SQ FT
 MAX DEPTH= 25.0 FT
 CUT VOL= 66894 CY
 LENGTH EXCAVATION= 3800 FT
 WIDTH EXCAVATION= 130 TO 345 FT



LEGEND

- SOIL BORING LOCATION
 - [Hatched Box] APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < BACKGROUND). MATERIAL MAY BE MANAGED ON SITE OR AS NON-SPECIAL WASTE (a(1)).
 - [Blue Hatched Box] APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDD/USFO WITHIN A MSA COUNTY (a(2)).
 - [Green Hatched Box] APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA OR CHICAGO CORPORATE LIMITS). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDD/USFO WITHIN A MSA COUNTY EXCLUDING CHICAGO OR WITHIN CHICAGO CORPORATE LIMITS (a(3)).
 - [Pink Hatched Box] APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA COUNTY EXCLUDING CHICAGO). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDD/USFO FACILITY WITHIN A MSA COUNTY EXCLUDING CHICAGO (A(4)).
 - [Orange Hatched Box] APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS. MATERIAL MAY BE MANAGED AS A NON-SPECIAL WASTE (a(5)).
 - [Purple Hatched Box] APPROXIMATE CONSTRUCTION AREA ESTIMATED TO NOT EXCEED MOST STRINGENT MAC VALUE WITH SOIL pH OUTSIDE RANGE 6.25-9.0 TO BE MANAGED ON-SITE OR OFF-SITE AS UNCONTAMINATED SOIL, CANNOT BE TAKEN TO A CCDD/USFO (b(1)).
 - [White Box] APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED TACO TIER 1 CONSTRUCTION WORKERS REFERENCE CONCENTRATIONS.
- AREAS WITHOUT HATCHING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.

3919-COV-41

3919-COV-41
 AREA= 1161037 SQ FT
 MAX DEPTH= 25.0 FT
 CUT VOL= 66894 CY
 LENGTH EXCAVATION= 3800 FT
 WIDTH EXCAVATION= 130 TO 345 FT

Figure 4-1.5 Extent of Potentially Impacted Soil
 Huff & Huff, Inc. 199-014 WO #5

IL ROUTE 47
 REMOVAL PLAN



1170 SOUTH HOBOLT ROAD
 JOLETT, ILLINOIS 60451
 (815) 744-4200

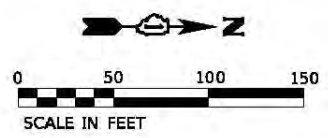
USER NAME = StevenB
 DESIGNED - MAG
 DRAWN - DJW
 CHECKED - SJG
 DATE - 4/20/2021

REVISED -
 REVISED -
 REVISED -
 REVISED -

SCALE: 1" = 50'
 SHEET 5 OF 8 SHEETS
 STA. 611+00.00 TO STA. 626+00.00

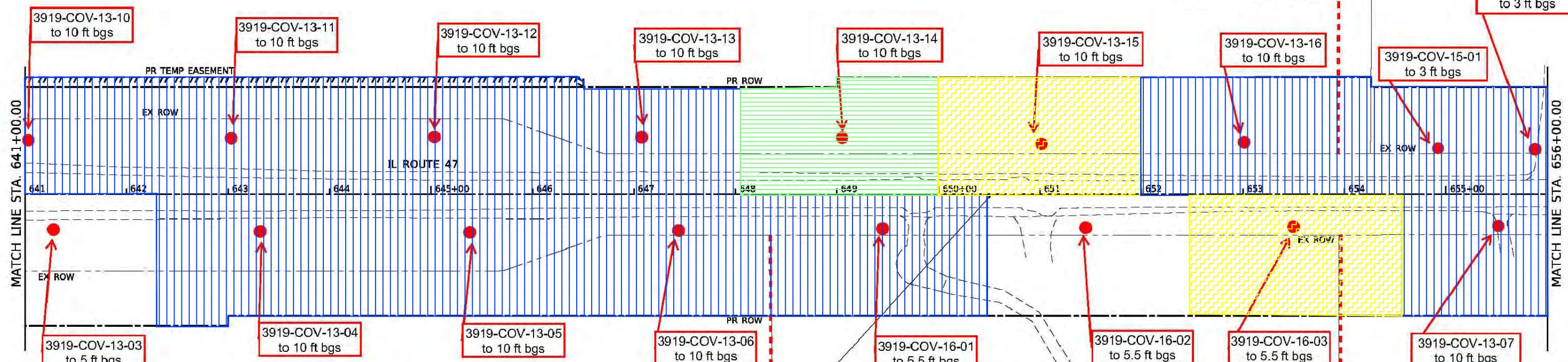
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CONTRACT NO. 62B43				
ILLINOIS FED. AID PROJECT				

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3919-COV-13

3919-COV-15



3919-COV-13
 AREA= 521751 SQ FT
 MAX DEPTH= 9.6 FT
 CUT VOL= 7481 CY
 LENGTH EXCAVATION= 1744 FT
 WIDTH EXCAVATION= 100 TO 130 FT

3919-COV-13
 AREA= 521751 SQ FT
 MAX DEPTH= 9.6 FT
 CUT VOL= 7481 CY
 LENGTH EXCAVATION= 1744 FT
 WIDTH EXCAVATION= 100 TO 130 FT

3919-COV-15
 AREA= 21000 SQ FT
 MAX DEPTH= 2.9 FT
 CUT VOL= 283 CY
 LENGTH EXCAVATION= 200 FT
 WIDTH EXCAVATION= 105 FT

3919-COV-16
 AREA= 65321 SQ FT
 MAX DEPTH= 5.4 FT
 CUT VOL= 456 CY
 LENGTH EXCAVATION= 560 FT
 WIDTH EXCAVATION= 115 TO 120 FT

3919-COV-13
 AREA= 521751 SQ FT
 MAX DEPTH= 9.6 FT
 CUT VOL= 7481 CY
 LENGTH EXCAVATION= 1744 FT
 WIDTH EXCAVATION= 100 TO 130 FT

3919-COV-13

3919-COV-16

3919-COV-13

LEGEND

- SOIL BORING LOCATION
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < BACKGROUND). MATERIAL MAY BE MANAGED ON SITE OR AS NON-SPECIAL WASTE (a(1)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDD/USFO WITHIN A MSA COUNTY (a(2)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA OR CHICAGO CORPORATE LIMITS). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDD/USFO WITHIN A MSA COUNTY EXCLUDING CHICAGO OR WITHIN CHICAGO CORPORATE LIMITS (a(3)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA COUNTY EXCLUDING CHICAGO). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDD/USFO FACILITY WITHIN A MSA COUNTY EXCLUDING CHICAGO (A(4)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS. MATERIAL MAY BE MANAGED AS A NON-SPECIAL WASTE (a(5)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO NOT EXCEED MOST STRINGENT MAC VALUE WITH SOIL pH OUTSIDE RANGE 6.25-9.0 TO BE MANAGED ON-SITE OR OFF-SITE AS UNCONTAMINATED SOIL. CANNOT BE TAKEN TO A CCDD/USFO (b(1)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED TACO TIER 1 CONSTRUCTION WORKERS REFERENCE CONCENTRATIONS.

AREAS WITHOUT HATCHING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.

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SA STRAND ASSOCIATES
 1170 SOUTH HOBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = StevenB	DESIGNED - MAG	REVISD -
PLOT SCALE = 100 0000 ' / in.	DRAWN - DJW	REVISD -
PLOT DATE = 4/1/2021	CHECKED - SJG	REVISD -
	DATE - 4/20/2021	REVISD -

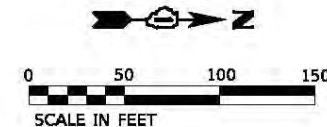
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CHECKED - SJG	REVISD -
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Figure 4-1.7 Extent of Potentially Impacted Soil
 Huff & Huff, Inc. 199-014 WO #5

SCALE 1"=50'	SHEET 7 OF 8 SHEETS	STA. 641+00.00 TO STA. 656+00.00
--------------	---------------------	----------------------------------

F.A.P. RTE. 326	SECTION 105-N-2(15)	COUNTY MCHENRY	TOTAL SHEETS 16	SHEET NO. 16
CONTRACT NO. 62B43			ILLINOIS FED. AID PROJECT	

**IL ROUTE 47
 PESA RESPONSE EXHIBIT**



3919-COV-15

3919-COV-14

3919-COV-12

3919-COV-7

3919-COV-14
 AREA= 16801 SQ FT
 MAX DEPTH= 6.5 FT
 CUT VOL= 434 CY
 LENGTH EXCAVATION= 160 FT
 WIDTH EXCAVATION= 105 FT

3919-COV-12
 AREA= 15200 SQ FT
 MAX DEPTH= 6.4 FT
 CUT VOL= 178 CY
 LENGTH EXCAVATION= 160 FT
 WIDTH EXCAVATION= 95 FT

3919-COV-7
 AREA= 48443 SQ FT
 MAX DEPTH= 1.8 FT
 CUT VOL= 427 CY
 LENGTH EXCAVATION= 604 FT
 WIDTH EXCAVATION= 70 TO 95 FT

3919-COV-14-01
 to 6.5 ft bgs
 pH = 9.04 / 9.14

3919-COV-14-02
 to 6.5 ft bgs

3919-COV-14-03
 to 6.5 ft bgs

3919-COV-12-01
 to 5 ft bgs

3919-COV-7-01
 to 2 ft bgs

3919-COV-7-02
 to 2 ft bgs

3919-COV-7-03
 to 2 ft bgs

3919-COV-7-04
 to 2 ft bgs

3919-COV-13-08
 to 10 ft bgs

3919-COV-11-01
 to 6.5 ft bgs

3919-COV-11-02
 to 6.5 ft bgs

3919-COV-10-01
 to 1 ft bgs

3919-COV-10-02
 to 1 ft bgs

3919-COV-9-01
 to 1 ft bgs

3919-COV-9-02
 to 1 ft bgs

3919-COV-13

3919-COV-11

3919-COV-9

3919-COV-8

3919-COV-13
 AREA= 521751 SQ FT
 MAX DEPTH= 9.6 FT
 CUT VOL= 7481 CY
 LENGTH EXCAVATION= 1744 FT
 WIDTH EXCAVATION= 100 TO 130 FT

3919-COV-11
 AREA= 30707 SQ FT
 MAX DEPTH= 6.4 FT
 CUT VOL= 460 CY
 LENGTH EXCAVATION= 329 FT
 WIDTH EXCAVATION= 63 TO 101 FT

3919-COV-9
 PSI REQUIRED
 AREA= 1500 SQ FT
 MAX DEPTH= 1.0 FT
 CUT VOL= 14 CY
 LENGTH EXCAVATION= 328 FT
 WIDTH EXCAVATION= 6 FT

3919-COV-8
 AREA= 0 SQ FT
 MAX DEPTH= 0 FT
 CUT VOL= 0 CY
 LENGTH EXCAVATION= 0 FT
 WIDTH EXCAVATION= 0 FT

LEGEND

- SOIL BORING LOCATION
- [Yellow Hatched Box] APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < BACKGROUND). MATERIAL MAY BE MANAGED ON-SITE OR AS NON-SPECIAL WASTE (a(1)).
- [Blue Hatched Box] APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDD/USFO WITHIN A MSA COUNTY (a(2)).
- [Green Hatched Box] APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA OR CHICAGO CORPORATE LIMITS). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDD/USFO WITHIN A MSA COUNTY EXCLUDING CHICAGO OR WITHIN CHICAGO CORPORATE LIMITS (a(3)).
- [Pink Hatched Box] APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA COUNTY EXCLUDING CHICAGO). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDD/USFO FACILITY WITHIN A MSA COUNTY EXCLUDING CHICAGO (a(4)).
- [Orange Hatched Box] APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS. MATERIAL MAY BE MANAGED AS A NON-SPECIAL WASTE (a(5)).
- [Purple Hatched Box] APPROXIMATE CONSTRUCTION AREA ESTIMATED TO NOT EXCEED MOST STRINGENT MAC VALUE WITH SOIL pH OUTSIDE RANGE 6.25-9.0 TO BE MANAGED ON-SITE OR OFF-SITE AS UNCONTAMINATED SOIL, CANNOT BE TAKEN TO A CCDD/USFO (b(1)).
- [Grey Hatched Box] APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED TACO TIER 1 CONSTRUCTION WORKERS REFERENCE CONCENTRATIONS.

AREAS WITHOUT HATCHING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.

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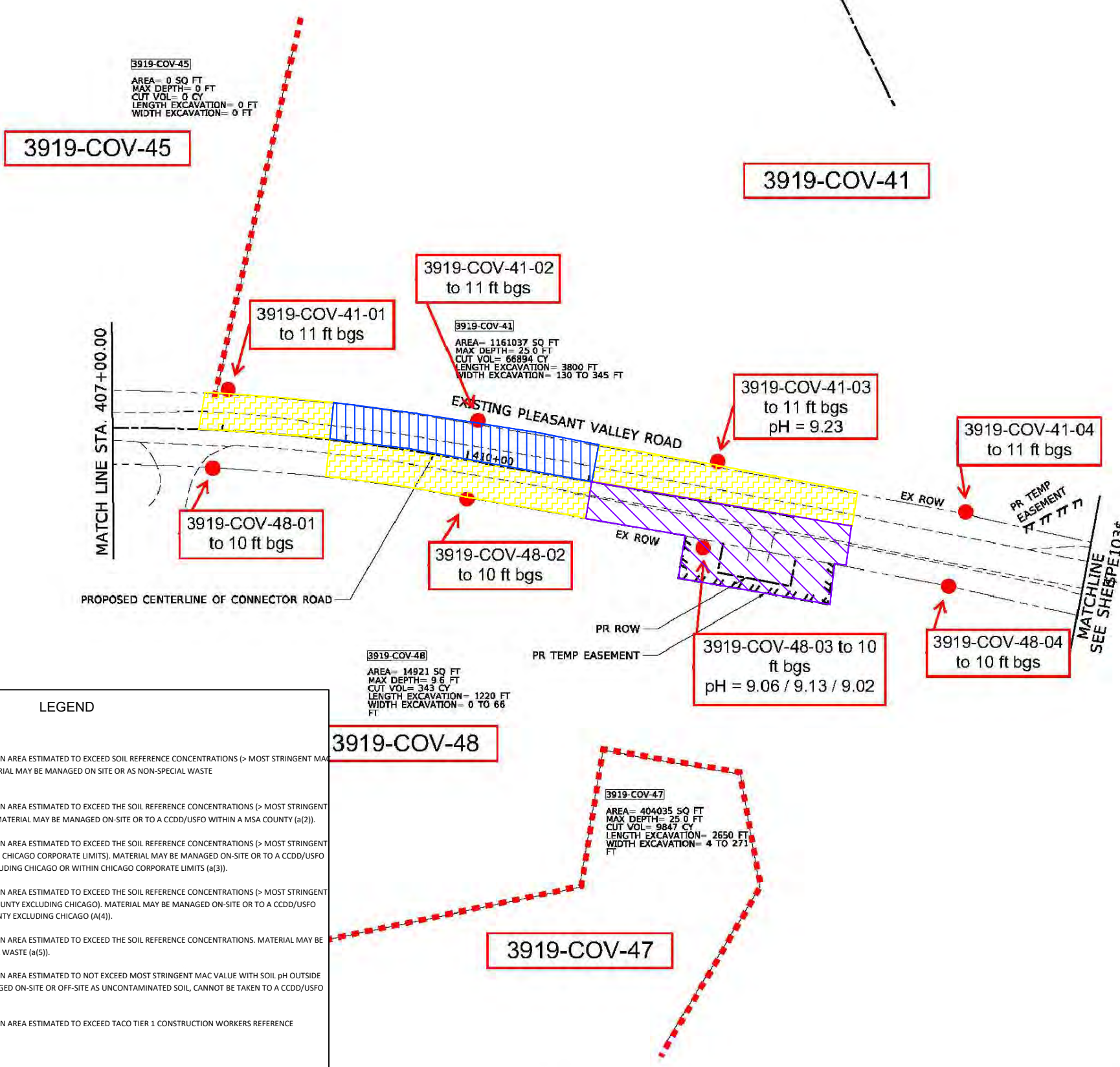
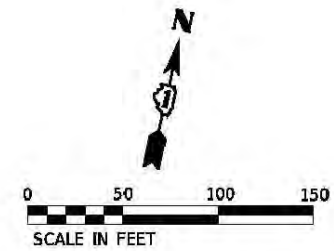
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Figure 4-1.8 Extent of Potentially Impacted Soil
 Huff & Huff, Inc. 199-014 WO #5

**IL ROUTE 47
 PESA RESPONSE EXHIBIT**

SCALE: 1" = 50' SHEET 8 OF 8 SHEETS STA 656+00.00 TO STA 671+00.00

F.A.P. RTE. 326	SECTION 105-N-2(15)	COUNTY MCHENRY	TOTAL SHEETS 16	SHEET NO. 8
CONTRACT NO. 62B43			ILLINOIS FED. AID PROJECT	



3919-COV-45
 AREA= 0 SQ FT
 MAX DEPTH= 0 FT
 CUT VOL= 0 CY
 LENGTH EXCAVATION= 0 FT
 WIDTH EXCAVATION= 0 FT

3919-COV-41
 AREA= 1161037 SQ FT
 MAX DEPTH= 25.0 FT
 CUT VOL= 66894 CY
 LENGTH EXCAVATION= 3800 FT
 WIDTH EXCAVATION= 130 TO 345 FT

3919-COV-48
 AREA= 14921 SQ FT
 MAX DEPTH= 9.6 FT
 CUT VOL= 343 CY
 LENGTH EXCAVATION= 1220 FT
 WIDTH EXCAVATION= 0 TO 66 FT

3919-COV-47
 AREA= 404035 SQ FT
 MAX DEPTH= 25.0 FT
 CUT VOL= 9847 CY
 LENGTH EXCAVATION= 2650 FT
 WIDTH EXCAVATION= 4 TO 271 FT

LEGEND	
	SOIL BORING LOCATION
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < BACKGROUND). MATERIAL MAY BE MANAGED ON-SITE OR AS NON-SPECIAL WASTE (a(1)).
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDD/USFO WITHIN A MSA COUNTY (a(2)).
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA OR CHICAGO CORPORATE LIMITS). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDD/USFO WITHIN A MSA COUNTY EXCLUDING CHICAGO OR WITHIN CHICAGO CORPORATE LIMITS (a(3)).
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA COUNTY EXCLUDING CHICAGO). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDD/USFO FACILITY WITHIN A MSA COUNTY EXCLUDING CHICAGO (a(4)).
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS. MATERIAL MAY BE MANAGED AS A NON-SPECIAL WASTE (a(5)).
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO NOT EXCEED MOST STRINGENT MAC VALUE WITH SOIL pH OUTSIDE RANGE 6.25-9.0 TO BE MANAGED ON-SITE OR OFF-SITE AS UNCONTAMINATED SOIL, CANNOT BE TAKEN TO A CCDD/USFO (b(1)).
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED TACO TIER 1 CONSTRUCTION WORKERS REFERENCE CONCENTRATIONS.
AREAS WITHOUT HATCHING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.	

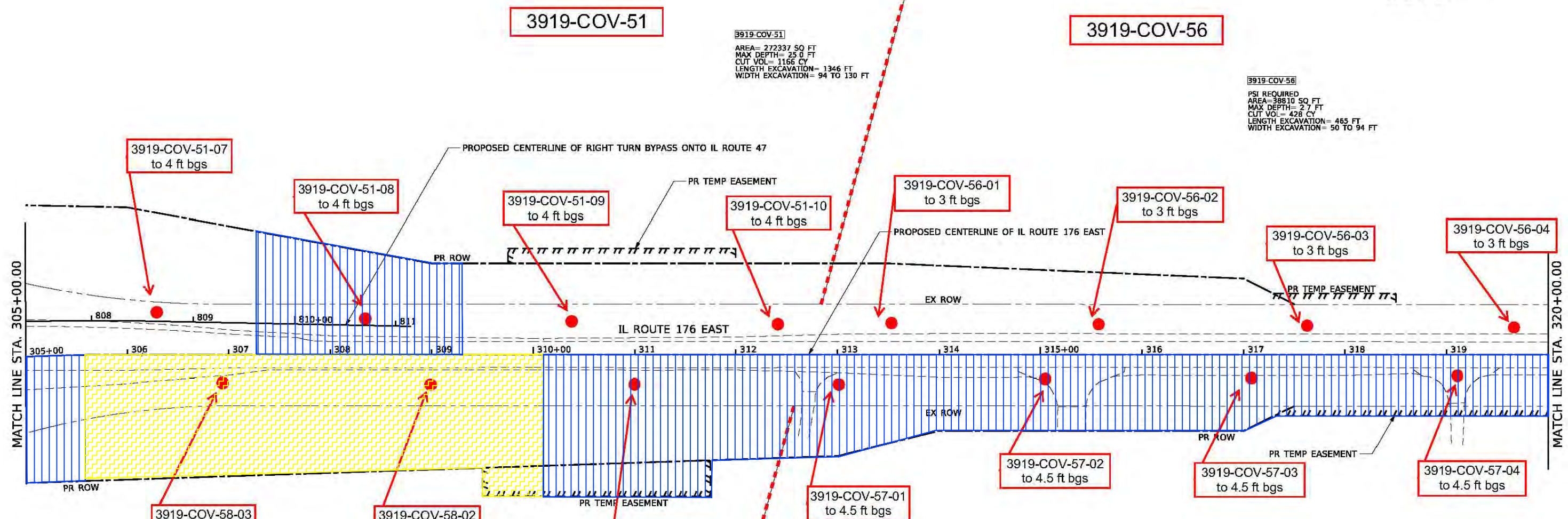
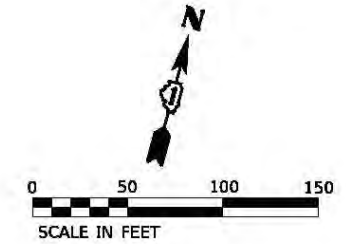
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		DATE	- 10/29/2021	REVISED	-

Figure 4-1.11 Extent of Potentially Impacted Soil
 Huff & Huff, Inc. 199-014 WO #5

CONNECTOR ROAD		F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PESA RESPONSE EXHIBIT		326	105-N-2(15)	MCHENRY	16	3PE3023
SCALE: 1"=50'		SHEET 2 OF 2 SHEETS		CONTRACT NO. 62B43		
		STA. TO STA.		ILLINOIS FED. AID PROJECT		



3919-COV-51
 AREA= 272337 SQ FT
 MAX DEPTH= 25.0 FT
 CUT VOL= 1166 CY
 LENGTH EXCAVATION= 1346 FT
 WIDTH EXCAVATION= 94 TO 130 FT

3919-COV-56
 PSI REQUIRED
 AREA= 38810 SQ FT
 MAX DEPTH= 2.7 FT
 CUT VOL= 428 CY
 LENGTH EXCAVATION= 465 FT
 WIDTH EXCAVATION= 50 TO 94 FT

3919-COV-58
 PSI REQUIRED
 AREA= 101405 SQ FT
 MAX DEPTH= 25.0 FT
 CUT VOL= 4310 CY
 LENGTH EXCAVATION= 1123 FT
 WIDTH EXCAVATION= 0 TO 73 FT

LEGEND

- SOIL BORING LOCATION
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < BACKGROUND). MATERIAL MAY BE MANAGED ON-SITE OR AS NON-SPECIAL WASTE (a(1)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDD/USFO WITHIN A MSA COUNTY (a(2)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA OR CHICAGO CORPORATE LIMITS). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDD/USFO WITHIN A MSA COUNTY EXCLUDING CHICAGO OR WITHIN CHICAGO CORPORATE LIMITS (a(3)).
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- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO NOT EXCEED MOST STRINGENT MAC VALUE WITH SOIL pH OUTSIDE RANGE 6.25-9.0 TO BE MANAGED ON-SITE OR OFF-SITE AS UNCONTAMINATED SOIL, CANNOT BE TAKEN TO A CCDD/USFO (b(1)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED TACO TIER 1 CONSTRUCTION WORKERS REFERENCE CONCENTRATIONS.

AREAS WITHOUT HATCHING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.

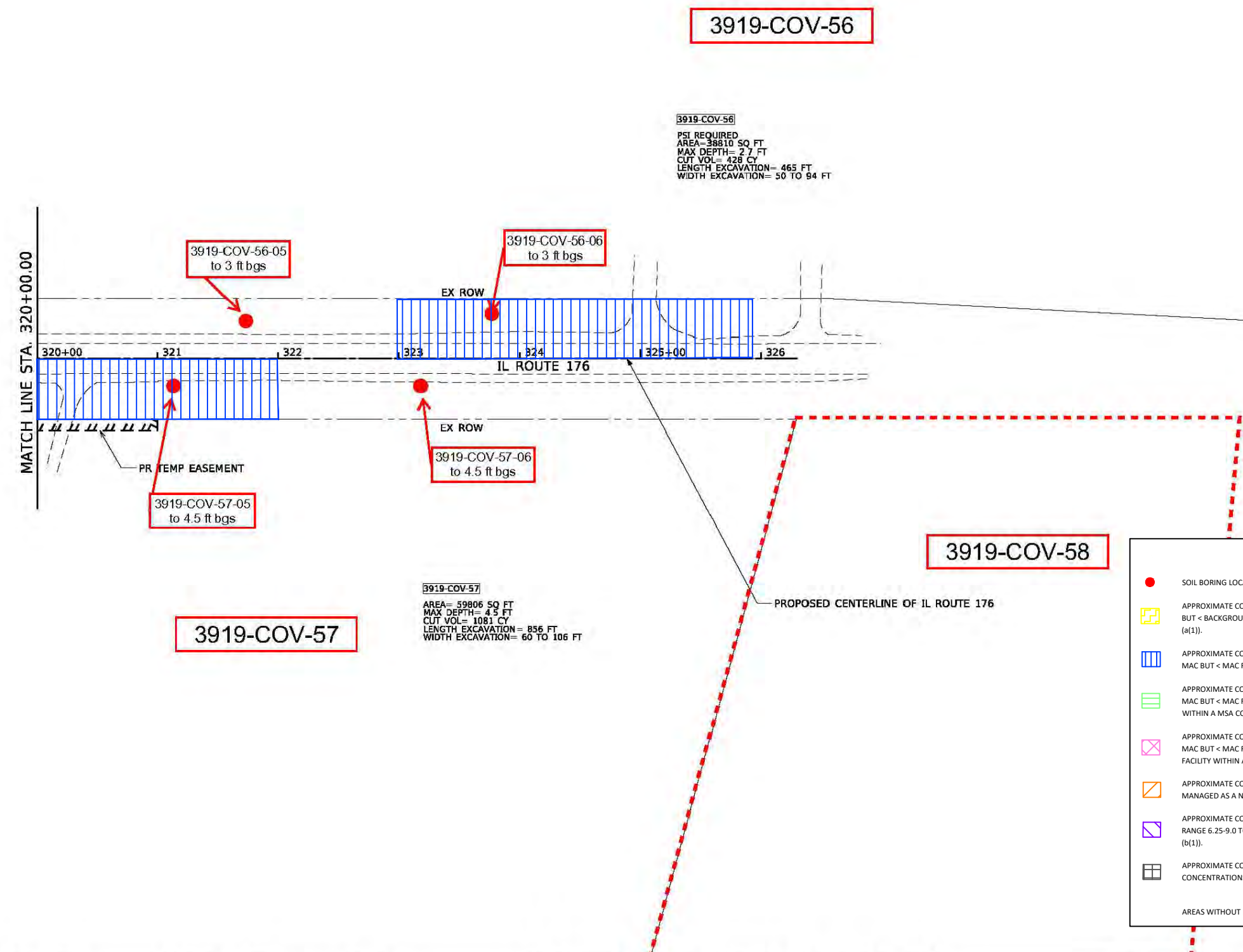
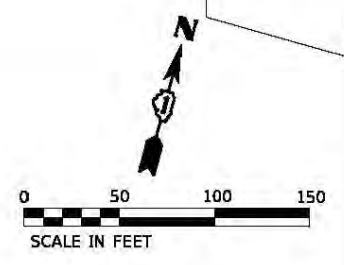
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 STRAND ASSOCIATES*
 1170 SOUTH HOUBOLT ROAD
 JOLETT, ILLINOIS 60431
 (815) 744-4200

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	DATE - 4/20/2021	REVISED -

Figure 4-1.12 Extent of Potentially Impacted Soil
 Huff & Huff, Inc. 199-014 WO #5

IL ROUTE 176 (EAST)	
PESA RESPONSE EXHIBIT	
SCALE: 1" = 50'	SHEET 1 OF 2 SHEETS
STA. 305+00.00	TO STA. 320+00.00

F.A.P. RTE. 326	SECTION 105-N-2(15)	COUNTY MCHENRY	TOTAL SHEETS 16	SHEET NO. 16
CONTRACT NO. 62B43			ILLINOIS FED. AID PROJECT	



3919-COV-56

3919-COV-56
 PSI REQUIRED
 AREA= 38810 SQ FT
 MAX DEPTH= 2.7 FT
 CUT VOL= 428 CY
 LENGTH EXCAVATION= 465 FT
 WIDTH EXCAVATION= 50 TO 94 FT

3919-COV-56-05
 to 3 ft bgs

3919-COV-56-06
 to 3 ft bgs

3919-COV-57-05
 to 4.5 ft bgs

3919-COV-57-06
 to 4.5 ft bgs

3919-COV-57

3919-COV-57
 AREA= 59806 SQ FT
 MAX DEPTH= 4.5 FT
 CUT VOL= 1081 CY
 LENGTH EXCAVATION= 856 FT
 WIDTH EXCAVATION= 60 TO 106 FT

3919-COV-58

LEGEND

- SOIL BORING LOCATION
- [Yellow hatched box] APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < BACKGROUND). MATERIAL MAY BE MANAGED ON SITE OR AS NON-SPECIAL WASTE (a(1)).
- [Blue hatched box] APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDD/USFO WITHIN A MSA COUNTY (a(2)).
- [Green hatched box] APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA OR CHICAGO CORPORATE LIMITS). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDD/USFO WITHIN A MSA COUNTY EXCLUDING CHICAGO OR WITHIN CHICAGO CORPORATE LIMITS (a(3)).
- [Pink hatched box] APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA COUNTY EXCLUDING CHICAGO). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDD/USFO FACILITY WITHIN A MSA COUNTY EXCLUDING CHICAGO (A(4)).
- [Orange hatched box] APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS. MATERIAL MAY BE MANAGED AS A NON-SPECIAL WASTE (a(5)).
- [Purple hatched box] APPROXIMATE CONSTRUCTION AREA ESTIMATED TO NOT EXCEED MOST STRINGENT MAC VALUE WITH SOIL pH OUTSIDE RANGE 6.25-9.0 TO BE MANAGED ON-SITE OR OFF-SITE AS UNCONTAMINATED SOIL, CANNOT BE TAKEN TO A CCDD/USFO (b(1)).
- [Grey hatched box] APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED TACO TIER 1 CONSTRUCTION WORKERS REFERENCE CONCENTRATIONS.

AREAS WITHOUT HATCHING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.

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PLOT DATE = 4/1/2021		

Figure 4-1.13 Extent of Potentially Impacted Soil
 Huff & Huff, Inc. 199-014 WO #5

IL ROUTE 176 (EAST)	
PESA RESPONSE EXHIBIT	
SCALE: 1"=50'	SHEET 2 OF 2 SHEETS
STA 320+00.00	TO STA 326+30.37

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105-N-2(15)	MCHENRY	16	5PES15
CONTRACT NO. 62B43				
ILLINOIS FED. AID PROJECT				

LPC-663 TABLE (Page 1 of 34)
MSA INCLUDING CHICAGO - EXCEEDANCE TABLE
IDOT, District One
IL 47/IL 176 at Pleasant Valley Road
Lakewood, McHenry County, Illinois
BDE Sequence No.: 18785B
PTB: 199-014/HH-2, Work Order No.: 5

Boring ID Sample Depth, ft Sample Date Excavation Area(s) [ISGS Site No.(s)]	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3919-COV-7-01	3919-COV-7-02	3919-COV-7-03	3919-COV-7-04	3919-COV-9-01	3919-COV-10-01
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(0-2)	(0-2)	(0-2)	(0-2)	(0-1)	(0-1)
						4/1/2022	4/1/2022	4/1/2022	4/1/2022	4/1/2022	4/1/2022
						3919-COV-7	3919-COV-7	3919-COV-7	3919-COV-7	3919-COV-9	3919-COV-10
Parameter											
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.63	8.23	8.51	8.68	8.77	8.64
PID Readings (ppm)						0.0	0.0	0.0	0.0	0.0	0.0
VOCs, mg/kg											
NO EXCEEDANCES											
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<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	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005	<0.005	0.0084
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<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	<0.005	<0.005
SVOCs, mg/kg											
NO EXCEEDANCES											
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	---	0.09	---	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<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	<0.33	<0.33
Total Metals, mg/kg											
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	4.3	3.9	6.1	3.4	4.9	4.7
Barium	1,500	14,000	870,000	5,500	690,000	36.1	56.5	53.7	57.2	36.7	40.7
Beryllium	22	410	44,000	160	1,300	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cadmium	5.2	200	59,000	78	1,800	0.5	0.7	0.6	<0.5	0.8	0.5
Calcium	---	---	---	---	---	79500	17200	34500	30300	62100	48300
Chromium	21	4100	690	230	270	14.6	19.6	17.3	12.4	17	18
Cobalt	20	12000	---	4,700	---	6.6	9.2	8.7	6.5	9.5	7
Copper	2,900	8,200	---	2,900	---	20.2	19.4	21.5	50.7	19.4	27.2
Iron	15,000 / 15,900	---	---	---	---	15500	17900	19000	11500	19100	17000
Lead	107	700	---	400	---	88.2	25	72.5	58.2	11.6	62.8
Magnesium	325,000	730,000	---	325,000	---	48400	11400	20100	15100	40100	26900
Manganese	630 / 636	4100	8,700	1,600	---	366	320	429	248	391	347
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	15.9	20.3	20.1	12.6	25.1	16.8
Potassium	---	---	---	---	---	1200	1290	1410	856	1490	1270
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	1410	1150	2300	1440	2490	3620
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	20.1	26.4	23.4	20.5	22.8	26.3
Zinc	5,100	61,000	---	23,000	---	48.6	48.5	54.6	48	41.6	50.8
TCLP Metals, mg/L											
Class I Groundwater ^{d/}											
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Iron			5			0.1	0.8	<0.1	0.1	0.9	<0.1
Lead			0.0075			0.013	0.012	0.006	0.055	0.011	<0.005
Manganese			0.15			6	4.8	5.7	4.9	5.8	0.5
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	0.011	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SPLP Metals, mg/L											
Class I Groundwater ^{d/}											
Arsenic			0.05			0.021	0.017	0.023	<0.010	0.03	0.03
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	0.004	0.005
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			0.065	0.088	0.106	0.045	0.118	0.138
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			0.063	0.083	0.102	0.048	0.114	0.116
Iron			5			67	82.6	95.8	39.5	112	113
Lead			0.0075			0.096	0.057	0.171	0.156	0.057	0.377
Manganese			0.15			0.6	0.9	0.9	0.4	1	1.1
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	0.1	<0.1	0.2	0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			0.2	0.2	0.3	0.1	0.2	0.4

--- - Refers to not applicable or value not available

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

Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table.

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

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

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

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

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

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 2 of 34)
MSA INCLUDING CHICAGO - EXCEEDANCE TABLE
IDOT, District One
IL 47/IL 176 at Pleasant Valley Road
Lakewood, McHenry County, Illinois
BDE Sequence No.: 18785B
PTB: 199-014/HH-2, Work Order No.: 5

Boring ID Sample Depth, ft Sample Date Excavation Area(s) [ISGS Site No.(s)]	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3919-COV-10-02	3919-COV-11-02	3919-COV-11-02	3919-COV-12-01	3919-COV-13-01	3919-COV-13-01
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(0-1)	(0-5)	(5-6.5)	(0-5)	(0-5)	(5-10)
						4/1/2022	4/1/2022	4/1/2022	4/1/2022	4/1/2022	4/1/2022
Parameter											
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.50	7.97	8.44	8.87	7.45	8.80
PID Readings (ppm)						0.0	0.0	0.0	0.0	0.0	0.0
VOCs, mg/kg		NO EXCEEDANCES									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<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	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<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	<0.005	<0.005
SVOCs, mg/kg		NO EXCEEDANCES									
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	---	0.09	---	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<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	<0.33	<0.33
Total Metals, mg/kg											
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	5	4.1	5.2	6.2	2.5	2.5
Barium	1,500	14,000	870,000	5,500	690,000	58.5	26.6	53.3	52.7	96.2	17.2
Beryllium	22	410	44,000	160	1,300	0.6	<0.5	<0.5	0.5	0.7	<0.5
Cadmium	5.2	200	59,000	78	1,800	0.9	0.7	0.8	1	0.7	<0.5
Calcium	---	---	---	---	---	24000	68000	66500	42400	3600	56000
Chromium	21	4100	690	230	270	19.5	12.7	14.9	18.4	19.9	7.5
Cobalt	20	12000	---	4,700	---	9.5	9.3	7.6	10.4	9.8	4.6
Copper	2,900	8,200	---	2,900	---	22.6	16.4	20.4	23.7	15.3	13.3
Iron	15,000 / 15,900	---	---	---	---	21000	14700	17400	21200	18000	7460
Lead	107	700	---	400	---	30.2	8	10.7	17.2	12.3	4.8
Magnesium	325,000	730,000	---	325,000	---	15600	34700	34500	26000	3560	30100
Manganese	630 / 636	4100	8,700	1,600	---	329	394	317	405	216	215
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	24.6	22	19.6	25.5	17.4	10.5
Potassium	---	---	---	---	---	1600	1520	1410	1500	907	728
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	1970	472	824	3020	2210	557
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	29	17.7	21.7	25.8	34.9	15.3
Zinc	5,100	61,000	---	23,000	---	48.4	33	32	44.8	48.6	16.9
TCLP Metals, mg/L		Class I Groundwater ^{d/}									
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Iron			5			0.2	<0.1	<0.1	<0.1	1.3	<0.1
Lead			0.0075			0.008	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese			0.15			7.2	3.8	0.1	4.2	4.7	2.1
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SPLP Metals, mg/L		Class I Groundwater ^{d/}									
Arsenic			0.05			0.046	0.011	<0.010	0.033	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			0.006	<0.004	<0.004	0.004	<0.004	<0.004
Cadmium			0.005			0.007	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			0.168	0.047	0.013	0.111	0.027	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			0.17	0.046	0.013	0.129	0.019	<0.005
Iron			5			163	43.5	9.4	114	21.6	1.7
Lead			0.0075			0.162	0.016	<0.005	0.052	0.009	<0.005
Manganese			0.15			2.7	0.2	<0.1	1.4	0.2	<0.1
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			0.2	<0.1	<0.1	0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			0.4	0.1	<0.1	0.2	<0.1	<0.1

--- - Refers to not applicable or value not available

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

Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table.

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

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

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

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

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

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 3 of 34)
MSA INCLUDING CHICAGO - EXCEEDANCE TABLE
IDOT, District One
IL 47/IL 176 at Pleasant Valley Road
Lakewood, McHenry County, Illinois
BDE Sequence No.: 18785B
PTB: 199-014/HH-2, Work Order No.: 5

Boring ID Sample Depth, ft Sample Date Excavation Area(s) [ISGS Site No.(s)]	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3919-COV-13-02	3919-COV-13-02	3919-COV-13-04	3919-COV-13-04	3919-COV-13-05	3919-COV-13-05
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(0-5)	(5-10)	(0-5)	(5-10)	(0-5)	(5-10)
						4/1/2022	4/1/2022	4/1/2022	4/1/2022	4/1/2022	4/1/2022
Parameter											
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.90	7.97	8.35	7.99	8.22	8.28
PID Readings (ppm)						0.0	0.0	0.0	0.0	0.0	0.0
VOCs, mg/kg		NO EXCEEDANCES									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<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	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<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	<0.005	<0.005
SVOCs, mg/kg		NO EXCEEDANCES									
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	---	0.09	---	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<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	<0.33	<0.33
Total Metals, mg/kg											
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	3.2	4.4	4.7	3.8	3.9	2.1
Barium	1,500	14,000	870,000	5,500	690,000	85.6	39.5	117	60.3	39.8	20.8
Beryllium	22	410	44,000	160	1,300	0.6	<0.5	0.7	<0.5	0.6	<0.5
Cadmium	5.2	200	59,000	78	1,800	0.5	0.8	0.8	0.7	0.9	<0.5
Calcium	---	---	---	---	---	11900	75300	7870	81800	3200	58500
Chromium	21	4100	690	230	270	15.7	16.5	19.3	15.5	19.5	7.4
Cobalt	20	12000	---	4,700	---	6.7	9	10.5	9.1	5.5	4.2
Copper	2,900	8,200	---	2,900	---	17.6	20.8	15.5	18.4	15.9	10
Iron	15,000 / 15,900	---	---	---	---	16200	18400	21200	16100	18600	10200
Lead	107	700	---	400	---	11.5	9.5	17.2	8.2	9.7	3.6
Magnesium	325,000	730,000	---	325,000	---	6440	38400	4340	41700	3680	27300
Manganese	630 / 636	4100	8,700	1,600	---	280	364	1350	484	198	229
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	15.3	23.8	18.1	24.4	14.9	9.4
Potassium	---	---	---	---	---	1360	2130	1490	2110	968	790
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	2310	800	1600	871	1770	567
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	25.6	22	32.5	19.7	31.9	20
Zinc	5,100	61,000	---	23,000	---	42.2	40.4	44.1	36.8	37.2	21.4
TCLP Metals, mg/L		Class I Groundwater ^{d/}									
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Iron			5			<0.1	<0.1	0.7	<0.1	<0.1	<0.1
Lead			0.0075			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese			0.15			5.3	3.7	7.1	5	0.2	0.9
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	0.012	0.012	0.013	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SPLP Metals, mg/L		Class I Groundwater ^{d/}									
Arsenic			0.05			<0.010	<0.010	<0.010	0.02	0.014	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			0.014	0.05	0.011	0.068	0.087	0.019
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			0.015	0.041	0.012	0.071	0.068	0.026
Iron			5			12.3	46	9.2	69.4	77.9	21
Lead			0.0075			<0.005	0.015	<0.005	0.024	0.03	0.007
Manganese			0.15			0.1	0.2	0.1	0.4	0.4	0.2
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	0.1	<0.1	0.2	0.2	<0.1

--- - Refers to not applicable or value not available

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

Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table.

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

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

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

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

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

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration


LPC-663 TABLE (Page 4 of 34)
MSA INCLUDING CHICAGO - EXCEEDANCE TABLE
IDOT, District One
IL 47/IL 176 at Pleasant Valley Road
Lakewood, McHenry County, Illinois
BDE Sequence No.: 18785B
PTB: 199-014/HH-2, Work Order No.: 5

Boring ID Sample Depth, ft Sample Date Excavation Area(s) [ISGS Site No.(s)]	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3919-COV-13-06	3919-COV-13-06	3919-COV-13-07	3919-COV-13-07	3919-COV-13-08	3919-COV-13-08
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(0-5)	(5-10)	(0-5)	(5-10)	(0-5)	(5-10)
						4/1/2022	4/1/2022	4/1/2022	4/1/2022	4/1/2022	4/1/2022
Parameter											
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.06	8.28	8.01	8.32	8.23	8.47
PID Readings (ppm)						0.0	0.0	0.0	0.0	0.0	0.0
VOCs, mg/kg		NO EXCEEDANCES									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<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	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<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	<0.005	<0.005
SVOCs, mg/kg		NO EXCEEDANCES									
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	---	0.09	---	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<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	<0.33	<0.33
Total Metals, mg/kg											
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	4.5	7.4	7.8	<1.0	5	5.5
Barium	1,500	14,000	870,000	5,500	690,000	63.8	32.5	66.2	81.5	49.7	24.1
Beryllium	22	410	44,000	160	1,300	<0.5	<0.5	0.7	0.7	0.6	<0.5
Cadmium	5.2	200	59,000	78	1,800	0.8	0.9	1.2	1	0.9	<0.5
Calcium	---	---	---	---	---	31700	70100	20000	8660	27000	123000
Chromium	21	4100	690	230	270	15.9	15.9	22.3	21.1	19.8	8.7
Cobalt	20	12000	---	4,700	---	8.8	8.4	11.8	4.8	8.8	4.2
Copper	2,900	8,200	---	2,900	---	17.6	24.1	24.9	15.3	20.4	13.6
Iron	15,000 / 15,900	---	---	---	---	17600	19300	25600	20300	19900	16300
Lead	107	700	---	400	---	11.9	10.5	15.2	10.9	11.9	89.8
Magnesium	325,000	730,000	---	325,000	---	16500	32700	13900	7690	17100	64300
Manganese	630 / 636	4100	8,700	1,600	---	354	368	296	120	407	1330
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	18.2	22.8	26.6	16.8	25.9	10.1
Potassium	---	---	---	---	---	1230	1670	1600	1510	1570	878
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	1890	1160	2190	2230	1490	1410
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	25.2	23.5	34.4	22.9	24.5	18.3
Zinc	5,100	61,000	---	23,000	---	37.3	45.7	53.8	62.2	42.9	47.2
TCLP Metals, mg/L		Class I Groundwater ^{d/}									
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Iron			5			<0.1	1.8	0.3	0.2	0.1	0.8
Lead			0.0075			<0.005	<0.005	<0.005	<0.005	<0.005	0.264
Manganese			0.15			7.7	0.8	5.6	0.6	0.8	4
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium			0.05			0.011	<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1	<0.1	0.5
SPLP Metals, mg/L		Class I Groundwater ^{d/}									
Arsenic			0.05			<0.010	0.019	0.016	<0.010	0.048	0.01
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	0.007	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	0.008	<0.005
Chromium			0.1			0.039	0.075	0.055	0.059	0.199	0.01
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			0.038	0.078	0.057	0.034	0.194	0.021
Iron			5			38.7	65.6	53.6	47	182	6.6
Lead			0.0075			0.016	0.033	0.028	0.018	0.075	0.122
Manganese			0.15			0.5	0.4	0.3	0.2	1.7	<0.1
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	0.2	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	0.2	0.1	0.1	0.4	<0.1

--- - Refers to not applicable or value not available
^{a/} Soil reference concentrations from MAC table. Background values for MSA counties are included as applicable.
Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table.
Inorganic Soil Reference Concentrations (xx.xx / xx.xx) Include the Most Stringent values from the MAC Table / and the MSA County Value From the MAC Table as Applicable.
^{b/} Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B
^{c/} Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A
^{d/} Soil Remediation Objective for the Groundwater Component of the Groundwater Ingestion Route, Class I Groundwater.
When comparing results to the Soil Remediation Objectives, IDOT compares to the most stringent of the ingestion or inhalation exposure route value.
Bold indicates concentration detected
 Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 5 of 34)
MSA INCLUDING CHICAGO - EXCEEDANCE TABLE
IDOT, District One
IL 47/IL 176 at Pleasant Valley Road
Lakewood, McHenry County, Illinois
BDE Sequence No.: 18785B
PTB: 199-014/HH-2, Work Order No.: 5

Boring ID Sample Depth, ft Sample Date Excavation Area(s) [ISGS Site No.(s)]	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3919-COV-13-10	3919-COV-13-10	3919-COV-13-11	3919-COV-13-11	3919-COV-13-12	Dup-11 (3919-COV-13-12)
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(0-5)	(5-10)	(0-5)	(5-10)	(0-5)	(0-5)
						4/6/2022	4/6/2022	4/6/2022	4/6/2022	4/6/2022	4/6/2022
Parameter											
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.39	8.64	7.73	8.85	8.02	8.05
PID Readings (ppm)						0.0	0.0	0.0	0.0	0.0	0.0
VOCs, mg/kg		NO EXCEEDANCES									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<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	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<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	<0.005	<0.005
SVOCs, mg/kg		NO EXCEEDANCES									
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	---	0.09	---	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<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	<0.33	<0.33
Total Metals, mg/kg											
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	<1.0	<1.0	6.1	3.1	9.3	7.3
Barium	1,500	14,000	870,000	5,500	690,000	148	32.5	127	28.3	71.8	75.9
Beryllium	22	410	44,000	160	1,300	0.7	<0.5	0.9	<0.5	0.7	0.8
Cadmium	5.2	200	59,000	78	1,800	1.4	1	2	0.9	2.5	<0.5
Calcium	---	---	---	---	---	7670	86900	5350	68600	2170	1810
Chromium	21	4100	690	230	270	20.8	11.2	23.8	8.9	27.3	26.5
Cobalt	20	12000	---	4,700	---	6.5	9.6	10.1	4.7	10	10.6
Copper	2,900	8,200	---	2,900	---	15.6	15.9	24.2	11.5	31.8	27
Iron	15,000 / 15,900	---	---	---	---	16500	9630	24600	9600	31200	29400
Lead	107	700	---	400	---	10.3	8.6	11.7	5.6	15	16.1
Magnesium	325,000	730,000	---	325,000	---	7730	50400	6860	34300	4440	4500
Manganese	630 / 636	4100	8,700	1,600	---	146	331	527	295	351	419
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	18.1	19.1	27.1	10.4	28.2	32.1
Potassium	---	---	---	---	---	1700	1580	1700	1120	1460	1820
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	1080	511	1330	428	2560	2550
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	17.6	17.9	31.6	14.3	39	37.8
Zinc	5,100	61,000	---	23,000	---	51.6	27.9	49.5	23.5	54.5	58.3
TCLP Metals, mg/L		Class I Groundwater ^{d/}									
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Iron			5			0.7	<0.1	0.1	<0.1	0.7	<0.1
Lead			0.0075			<0.005	<0.005	0.01	<0.005	<0.005	<0.005
Manganese			0.15			1	2	13.8	2.9	<0.1	<0.1
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SPLP Metals, mg/L		Class I Groundwater ^{d/}									
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	0.046	0.056
Barium			2			1.5	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			0.007	<0.004	<0.004	<0.004	0.005	0.009
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	0.006
Chromium			0.1			0.223	0.047	0.055	0.01	0.165	0.242
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			0.167	0.037	0.036	0.012	0.172	0.232
Iron			5			182	29.5	47.8	8.8	169	221
Lead			0.0075			0.111	0.025	0.016	<0.005	0.068	0.078
Manganese			0.15			1.1	0.3	0.6	0.2	0.8	1
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			0.2	<0.1	<0.1	<0.1	0.2	0.2
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			0.5	0.1	<0.1	<0.1	0.4	0.5

--- - Refers to not applicable or value not available
^{a/} Soil reference concentrations from MAC table. Background values for MSA counties are included as applicable.
Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table.
Inorganic Soil Reference Concentrations (xx.xx / xx.xx) Include the Most Stringent values from the MAC Table / and the MSA County Value From the MAC Table as Applicable.
^{b/} Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B
^{c/} Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A
^{d/} Soil Remediation Objective for the Groundwater Component of the Groundwater Ingestion Route, Class I Groundwater.
When comparing results to the Soil Remediation Objectives, IDOT compares to the most stringent of the ingestion or inhalation exposure route value.
Bold indicates concentration detected
 Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 6 of 34)
MSA INCLUDING CHICAGO - EXCEEDANCE TABLE
IDOT, District One
IL 47/IL 176 at Pleasant Valley Road
Lakewood, McHenry County, Illinois
BDE Sequence No.: 18785B
PTB: 199-014/HH-2, Work Order No.: 5

Boring ID Sample Depth, ft Sample Date Excavation Area(s) [ISGS Site No.(s)]	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3919-COV-13-12	3919-COV-13-13	3919-COV-13-13	3919-COV-13-14	3919-COV-13-14	3919-COV-13-16
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(5-10)	(0-5)	(5-10)	(0-5)	(5-10)	(0-5)
						4/6/2022	4/6/2022	4/6/2022	4/6/2022	4/6/2022	4/6/2022
						3919-COV-13	3919-COV-13	3919-COV-13	3919-COV-13	3919-COV-13	3919-COV-13
Parameter											
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.56	8.63	8.65	8.35	8.73	8.93
PID Readings (ppm)						0.0	0.0	0.0	0.0	0.0	0.0
VOCs, mg/kg											
NO EXCEEDANCES											
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<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	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<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	<0.005	<0.005
SVOCs, mg/kg											
NO EXCEEDANCES											
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	---	0.09	---	<0.09	<0.09	<0.09	<0.09	0.227	<0.09
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	0.735	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33	0.598	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33	0.561	<0.33
Total Metals, mg/kg											
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	1.8	5.9	7.7	6.7	2.4	3.4
Barium	1,500	14,000	870,000	5,500	690,000	26.7	85.5	59.3	19.2	40.7	46.1
Beryllium	22	410	44,000	160	1,300	<0.5	0.6	0.6	<0.5	<0.5	<0.5
Cadmium	5.2	200	59,000	78	1,800	1	2	2.2	1.3	1.1	1.4
Calcium	---	---	---	---	---	78700	82500	78000	84500	79400	81800
Chromium	21	4100	690	230	270	10	20.6	19.4	10	14.3	13.8
Cobalt	20	12000	---	4,700	---	5.3	7.9	6.9	4.8	4.9	6.6
Copper	2,900	8,200	---	2,900	---	12.2	25	27.7	20.6	15.3	16.9
Iron	15,000 / 15,900	---	---	---	---	10500	20800	23400	13700	11400	14400
Lead	107	700	---	400	---	4.8	11	10.9	7.4	8.3	6.5
Magnesium	325,000	730,000	---	325,000	---	36300	41400	38500	42500	42800	38600
Manganese	630 / 636	4100	8,700	1,600	---	394	379	325	354	317	383
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	13.5	23.4	20.5	12.7	11.6	16.4
Potassium	---	---	---	---	---	1230	1770	1920	743	1420	1600
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	883	1790	1160	1400	1210	2240
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	16.4	27.8	29.1	15.5	18.2	19.4
Zinc	5,100	61,000	---	23,000	---	24.4	43.3	50.1	30.7	32.4	31.2
TCLP Metals, mg/L											
Class I Groundwater ^{d/}											
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Iron			5			<0.1	<0.1	<0.1	<0.1	0.3	1
Lead			0.0075			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese			0.15			0.6	0.3	0.7	4.8	2.6	6.8
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SPLP Metals, mg/L											
Class I Groundwater ^{d/}											
Arsenic			0.05			<0.010	0.012	0.015	0.02	<0.010	0.037
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	0.007	0.012
Chromium			0.1			0.04	0.05	0.091	0.072	0.043	0.132
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			0.046	0.045	0.081	0.101	0.047	0.178
Iron			5			40.3	47.1	82.9	76.1	37.1	136
Lead			0.0075			0.013	0.013	0.034	0.043	0.018	0.072
Manganese			0.15			0.3	0.2	0.4	1.1	0.4	2.3
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	0.2
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			0.1	0.1	0.2	0.2	0.1	0.3

--- - Refers to not applicable or value not available

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

Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table.

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

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

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

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


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

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 7 of 34)
MSA INCLUDING CHICAGO - EXCEEDANCE TABLE
IDOT, District One
IL 47/IL 176 at Pleasant Valley Road
Lakewood, McHenry County, Illinois
BDE Sequence No.: 18785B
PTB: 199-014/HH-2, Work Order No.: 5

Boring ID Sample Depth, ft Sample Date Excavation Area(s) [ISGS Site No.(s)]	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		Dup-10 (3919-COV-13-16)	3919-COV-13-16	3919-COV-13-17	3919-COV-13-17	3919-COV-13-19	3919-COV-13-19
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(0-5)	(5-10)	(0-5)	(5-10)	(0-5)	(5-10)
						4/6/2022	4/6/2022	3/29/2022	3/29/2022	3/29/2022	3/29/2022
Parameter											
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.98	6.98	8.05	8.42	8.60	8.61
PID Readings (ppm)						0.0	0.0	0.0	0.0	0.5	9.0
VOCs, mg/kg		NO EXCEEDANCES									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<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	0.0176	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005	0.0221	<0.005
Xylenes, Total	5.6	41,000	5.6	16,000	320	<0.005	<0.005	<0.005	<0.005	0.0075	<0.005
SVOCs, mg/kg		NO EXCEEDANCES									
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	---	0.09	---	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<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	<0.33	<0.33
Total Metals, mg/kg											
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	1	1.2
Arsenic	11.3 / 13	61	25,000	---	750	3.6	3	3	5.1	5.2	5.3
Barium	1,500	14,000	870,000	5,500	690,000	29.9	139	109	35.9	82.4	67.2
Beryllium	22	410	44,000	160	1,300	<0.5	0.8	0.6	<0.5	<0.5	<0.5
Cadmium	5.2	200	59,000	78	1,800	<0.5	1.6	1.3	1.2	1	1.3
Calcium	---	---	---	---	---	76100	9070	54300	87500	58900	62100
Chromium	21	4100	690	230	270	14.5	22.6	20.2	15.5	15.3	19.7
Cobalt	20	12000	---	4,700	---	7.3	8.7	11.9	10.8	7.1	8.3
Copper	2,900	8,200	---	2,900	---	18.5	26.8	24.6	19.6	17	33.4
Iron	15,000 / 15,900	---	---	---	---	15200	17600	20400	18900	16500	22500
Lead	107	700	---	400	---	9.1	14	12.4	10.3	12.9	25.5
Magnesium	325,000	730,000	---	325,000	---	39900	7380	34800	43700	32000	36600
Manganese	630 / 636	4100	8,700	1,600	---	335	171	621	463	330	258
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	18.6	26.6	30	24.8	15.3	23.5
Potassium	---	---	---	---	---	1690	1290	1660	2080	1070	1750
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	2200	2260	326	211	1500	893
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	1.1	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	21.4	30.8	29.8	22.5	29.1	37.6
Zinc	5,100	61,000	---	23,000	---	35	56.3	43.6	39.3	37.3	52.8
TCLP Metals, mg/L		Class I Groundwater ^{d/}									
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Iron			5			2.5	1.8	<0.1	<0.1	0.6	3
Lead			0.0075			<0.005	<0.005	0.008	<0.005	<0.005	<0.005
Manganese			0.15			7.5	16.3	20.9	1.3	10.6	1.2
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	0.013	0.013	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SPLP Metals, mg/L		Class I Groundwater ^{d/}									
Arsenic			0.05			0.013	<0.010	0.022	0.013	<0.010	<0.010
Barium			2			<1.0	<1.0	1.7	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	0.008	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			0.058	0.009	0.275	0.053	0.03	0.036
Cobalt			1			<0.1	<0.1	0.2	<0.1	<0.1	<0.1
Copper			0.65			0.071	0.013	0.269	0.049	0.03	0.034
Iron			5			54.6	4.8	221	50.4	27	33.8
Lead			0.0075			0.028	<0.005	0.109	0.022	0.013	0.012
Manganese			0.15			0.8	<0.1	2.9	0.4	0.3	0.2
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	0.4	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			0.1	<0.1	0.6	0.1	<0.1	<0.1

--- - Refers to not applicable or value not available
^{a/} Soil reference concentrations from MAC table. Background values for MSA counties are included as applicable.
Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table.
Inorganic Soil Reference Concentrations (xx.xx / xx.xx) Include the Most Stringent values from the MAC Table / and the MSA County Value From the MAC Table as Applicable.
^{b/} Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B
^{c/} Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A
^{d/} Soil Remediation Objective for the Groundwater Component of the Groundwater Ingestion Route, Class I Groundwater.
When comparing results to the Soil Remediation Objectives, IDOT compares to the most stringent of the ingestion or inhalation exposure route value.
Bold indicates concentration detected
 Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 8 of 34)
MSA INCLUDING CHICAGO - EXCEEDANCE TABLE
IDOT, District One
IL 47/IL 176 at Pleasant Valley Road
Lakewood, McHenry County, Illinois
BDE Sequence No.: 18785B
PTB: 199-014/HH-2, Work Order No.: 5

Boring ID Sample Depth, ft Sample Date Excavation Area(s) [ISGS Site No.(s)]	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3919-COV-13-20	3919-COV-13-20	3919-COV-14-02	3919-COV-14-02	3919-COV-14-03	3919-COV-14-03
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(0-5)	(5-10)	(0-5)	(5-6.5)	(0-5)	(5-6.5)
						3/29/2022	3/29/2022	4/1/2022	4/1/2022	4/1/2022	4/1/2022
						3919-COV-13	3919-COV-13	3919-COV-14	3919-COV-14	3919-COV-14	3919-COV-14
Parameter											
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.47	8.08	8.85	8.82	8.31	8.93
PID Readings (ppm)						0.0	0.0	0.0	0.0	0.0	0.0
VOCs, mg/kg											
NO EXCEEDANCES											
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<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	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<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	<0.005	<0.005
SVOCs, mg/kg											
NO EXCEEDANCES											
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	---	0.09	---	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<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	<0.33	<0.33
Total Metals, mg/kg											
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	5.8	4.5	5.7	4.2	5.3	3.1
Barium	1,500	14,000	870,000	5,500	690,000	17.3	27.4	49.4	23.7	55	25.9
Beryllium	22	410	44,000	160	1,300	<0.5	<0.5	<0.5	<0.5	0.6	<0.5
Cadmium	5.2	200	59,000	78	1,800	1	1.1	0.9	0.6	0.8	<0.5
Calcium	---	---	---	---	---	83200	103000	70100	73900	26100	80100
Chromium	21	4100	690	230	270	10.5	16.4	15.2	13	18.4	10.7
Cobalt	20	12000	---	4,700	---	7	6.6	8.4	4.6	11.8	7.3
Copper	2,900	8,200	---	2,900	---	20.3	21.1	17.2	19	22.1	13.2
Iron	15,000 / 15,900	---	---	---	---	15100	17400	18400	14700	20500	11600
Lead	107	700	---	400	---	9.1	9.6	9.9	10.6	18.7	5.5
Magnesium	325,000	730,000	---	325,000	---	45300	48100	36700	40200	16700	38200
Manganese	630 / 636	4100	8,700	1,600	---	448	362	439	291	417	309
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	15.8	20	21.1	15.9	25	14.1
Potassium	---	---	---	---	---	834	2110	1470	1540	1400	1060
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	726	644	1630	403	2160	394
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	18.1	22.2	21.1	16.2	31.2	16.9
Zinc	5,100	61,000	---	23,000	---	40.7	40.8	35.5	37.7	50.9	24.6
TCLP Metals, mg/L											
Class I Groundwater ^{d/}											
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Iron			5			<0.1	<0.1	<0.1	0.3	0.2	<0.1
Lead			0.0075			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese			0.15			0.8	0.7	10.2	4	2.6	3.4
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	0.013	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SPLP Metals, mg/L											
Class I Groundwater ^{d/}											
Arsenic			0.05			<0.010	0.017	0.035	0.025	0.019	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	0.006	<0.005	<0.005	<0.005
Chromium			0.1			0.021	0.048	0.129	0.077	0.075	0.023
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			0.04	0.055	0.133	0.084	0.074	0.021
Iron			5			26.9	48.9	119	79	75.3	18.3
Lead			0.0075			0.011	0.022	0.045	0.024	0.153	<0.005
Manganese			0.15			0.1	0.2	1	0.3	1.3	0.1
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			0.1	0.1	0.3	0.2	0.2	<0.1

--- - Refers to not applicable or value not available

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

Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table.

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

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

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

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

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

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 9 of 34)
MSA INCLUDING CHICAGO - EXCEEDANCE TABLE
IDOT, District One
IL 47/IL 176 at Pleasant Valley Road
Lakewood, McHenry County, Illinois
BDE Sequence No.: 18785B
PTB: 199-014/HH-2, Work Order No.: 5

Boring ID Sample Depth, ft Sample Date Excavation Area(s) [ISGS Site No.(s)]	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3919-COV-15-01	3919-COV-15-02	3919-COV-16-01	3919-COV-17-01	3919-COV-17-01	3919-COV-17-02
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(0-3)	(0-3)	(0-5.5)	(0-5)	(5-10)	(0-5)
						4/6/2022	4/6/2022	4/1/2022	4/6/2022	4/6/2022	4/6/2022
Parameter											
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.74	7.49	8.28	8.25	8.10	8.01
PID Readings (ppm)						0.0	0.0	0.0	0.0	0.0	0.0
VOCs, mg/kg		NO EXCEEDANCES									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<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	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<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	<0.005	<0.005
SVOCs, mg/kg		NO EXCEEDANCES									
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	---	0.09	---	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<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	<0.33	<0.33
Total Metals, mg/kg											
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	11.4	6.7	4.8	7.7	6.7	3.7
Barium	1,500	14,000	870,000	5,500	690,000	72	49.8	47.5	54	36.3	51.1
Beryllium	22	410	44,000	160	1,300	1	0.6	<0.5	0.6	<0.5	<0.5
Cadmium	5.2	200	59,000	78	1,800	3	2	0.7	2	1.8	1.4
Calcium	---	---	---	---	---	2170	61400	48000	65900	88400	29700
Chromium	21	4100	690	230	270	34	20	14.5	19	15.6	15.4
Cobalt	20	12000	---	4,700	---	15.1	10	6.2	10.6	10.9	6.9
Copper	2,900	8,200	---	2,900	---	37.5	25.6	17	26.8	20.6	16.7
Iron	15,000 / 15,900	---	---	---	---	35900	21100	16300	21100	18900	14900
Lead	107	700	---	400	---	18.5	12.8	10.9	11.4	10.5	76.3
Magnesium	325,000	730,000	---	325,000	---	6280	36400	25200	44900	47800	17000
Manganese	630 / 636	4100	8,700	1,600	---	243	407	355	458	500	513
Mercury	0.89	61	0.1	23	10	0.06	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	40.9	25.8	16.2	24.5	23.5	12.8
Potassium	---	---	---	---	---	2230	2020	1140	1400	1610	1050
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	4790	3840	1150	963	720	452
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	44.5	27.7	23.9	27.6	21.8	31.3
Zinc	5,100	61,000	---	23,000	---	71.8	45.4	31.6	39.1	40.5	50
TCLP Metals, mg/L		Class I Groundwater ^{d/}									
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	0.005	<0.005	0.005	0.005	0.006
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Iron			5			3.2	<0.1	0.2	<0.1	<0.1	<0.1
Lead			0.0075			0.009	<0.005	<0.005	<0.005	<0.005	0.012
Manganese			0.15			0.8	7.5	2.7	9.5	3	5
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	0.01	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1	<0.1	0.1
SPLP Metals, mg/L		Class I Groundwater ^{d/}									
Arsenic			0.05			0.052	0.011	<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			0.008	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			0.015	0.006	<0.005	0.005	0.006	<0.005
Chromium			0.1			0.188	0.035	0.064	0.017	0.019	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			0.193	0.043	0.053	0.014	0.016	<0.005
Iron			5			188	33.6	55.8	14.4	17.5	0.4
Lead			0.0075			0.102	0.019	0.019	0.006	0.008	<0.005
Manganese			0.15			1.1	0.4	0.3	0.1	0.2	0.2
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			0.4	<0.1	0.1	<0.1	<0.1	<0.1

--- - Refers to not applicable or value not available

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

Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table.

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

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

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

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

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

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 10 of 34)
MSA INCLUDING CHICAGO - EXCEEDANCE TABLE
IDOT, District One
IL 47/IL 176 at Pleasant Valley Road
Lakewood, McHenry County, Illinois
BDE Sequence No.: 18785B
PTB: 199-014/HH-2, Work Order No.: 5

Boring ID Sample Depth, ft Sample Date Excavation Area(s) [ISGS Site No.(s)]	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3919-COV-17-02	3919-COV-17-04	3919-COV-17-04	3919-COV-18-01	3919-COV-18-02	3919-COV-22-01
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(5-10)	(0-5)	(5-10)	(0-1)	(0-1)	(0-4)
						4/6/2022	3/29/2022	3/29/2022	3/29/2022	3/29/2022	3/29/2022
						3919-COV-17	3919-COV-17	3919-COV-17	3919-COV-18	3919-COV-18	3919-COV-22
Parameter											
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.10	8.99	8.95	8.19	8.64	8.63
PID Readings (ppm)						0.0	0.0	0.0	0.0	0.0	0.0
VOCs, mg/kg											
NO EXCEEDANCES											
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<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	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<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	<0.005	<0.005
SVOCs, mg/kg											
NO EXCEEDANCES											
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	---	0.09	---	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<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	<0.33	<0.33
Total Metals, mg/kg											
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	7.7	4.2	4.5	5.4	4.9	7.9
Barium	1,500	14,000	870,000	5,500	690,000	81.2	31.7	28.5	81.1	62.9	98.7
Beryllium	22	410	44,000	160	1,300	0.9	<0.5	<0.5	0.6	<0.5	0.6
Cadmium	5.2	200	59,000	78	1,800	2.2	1.1	1.1	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	27600	85000	91700	52900	11300	11600
Chromium	21	4100	690	230	270	25.7	14.5	14.2	20.7	15.3	23.3
Cobalt	20	12000	---	4,700	---	11.3	6.6	8.6	9.7	8.3	12.5
Copper	2,900	8,200	---	2,900	---	26.6	17.8	19.8	25	13.7	27.2
Iron	15,000 / 15,900	---	---	---	---	24800	16500	16200	20800	18200	27800
Lead	107	700	---	400	---	17.6	7.5	9.9	18.8	10.8	14.4
Magnesium	325,000	730,000	---	325,000	---	18900	41200	47600	33500	7230	10200
Manganese	630 / 636	4100	8,700	1,600	---	540	330	397	355	427	494
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	30	20.6	21.6	24.4	16	34.3
Potassium	---	---	---	---	---	2280	1670	1760	1400	860	1380
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	969	664	711	1420	1650	721
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	1.1	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	36.4	20.3	20	28.5	27.3	33.4
Zinc	5,100	61,000	---	23,000	---	55.9	36.3	37	48	36.3	56.8
TCLP Metals, mg/L											
Class I Groundwater ^{d/}											
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Iron			5			<0.1	<0.1	<0.1	0.2	<0.1	<0.1
Lead			0.0075			<0.005	<0.005	<0.005	0.008	<0.005	0.007
Manganese			0.15			5.9	5.1	1	7.4	1	11.2
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	0.01	<0.010	0.01
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SPLP Metals, mg/L											
Class I Groundwater ^{d/}											
Arsenic			0.05			<0.010	<0.010	0.013	0.015	0.02	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	0.008	0.007	<0.005
Chromium			0.1			<0.005	0.012	0.049	0.119	0.098	0.017
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.005	0.01	0.052	0.113	0.09	0.019
Iron			5			1	10.3	48	116	99.2	15
Lead			0.0075			<0.005	<0.005	0.019	0.048	0.039	<0.005
Manganese			0.15			<0.1	<0.1	0.2	1.6	0.6	0.2
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	0.1	0.2	0.2	<0.1

--- - Refers to not applicable or value not available

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

Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table.

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

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

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

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

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

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 11 of 34)
MSA INCLUDING CHICAGO - EXCEEDANCE TABLE
IDOT, District One
IL 47/IL 176 at Pleasant Valley Road
Lakewood, McHenry County, Illinois
BDE Sequence No.: 18785B
PTB: 199-014/HH-2, Work Order No.: 5

Boring ID Sample Depth, ft Sample Date Excavation Area(s) [ISGS Site No.(s)]	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3919-COV-22-01	3919-COV-22-01	3919-COV-22-04	3919-COV-22-04	3919-COV-22-04	3919-COV-22-07
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(4-8)	(8-12)	(0-4)	(4-8)	(8-12)	(0-4)
						3/29/2022	3/29/2022	3/29/2022	3/29/2022	3/29/2022	3/29/2022
Parameter											
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.59	8.67	8.95	8.11	8.67	8.38
PID Readings (ppm)						0.0	0.0	0.0	0.0	0.0	0.0
VOCs, mg/kg		NO EXCEEDANCES									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<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	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<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	<0.005	<0.005
SVOCs, mg/kg		NO EXCEEDANCES									
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	---	0.09	---	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<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	<0.33	<0.33
Total Metals, mg/kg											
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	6.8	5.1	5.9	2.5	6.9	1.9
Barium	1,500	14,000	870,000	5,500	690,000	30.3	45.4	102	21.8	27.3	27.4
Beryllium	22	410	44,000	160	1,300	<0.5	<0.5	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	<0.5	0.7
Calcium	---	---	---	---	---	77600	80400	4960	134000	80600	35300
Chromium	21	4100	690	230	270	13.7	15.5	21.7	14.2	14.9	9.3
Cobalt	20	12000	---	4,700	---	8.1	7.5	10.1	5	7.6	4.3
Copper	2,900	8,200	---	2,900	---	20	20.8	17.2	13.1	18.5	11.2
Iron	15,000 / 15,900	---	---	---	---	21700	18500	21800	12000	18200	11300
Lead	107	700	---	400	---	9	10.3	14	5.3	9	5.9
Magnesium	325,000	730,000	---	325,000	---	40300	42100	4170	66400	42400	18000
Manganese	630 / 636	4100	8,700	1,600	---	348	445	279	260	348	254
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	22.5	23.4	21.4	15	21.8	10.2
Potassium	---	---	---	---	---	1730	2000	1190	1450	2030	611
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	207	203	1510	414	277	424
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	23.6	20	34	15.2	19.5	25.6
Zinc	5,100	61,000	---	23,000	---	63	39.4	48.3	27.6	37.7	20.3
TCLP Metals, mg/L		Class I Groundwater ^{d/}									
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			0.008	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Iron			5			<0.1	0.6	1.7	2.7	<0.1	<0.1
Lead			0.0075			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese			0.15			1.3	1.2	5.8	1.1	1.2	3.4
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SPLP Metals, mg/L		Class I Groundwater ^{d/}									
Arsenic			0.05			<0.010	<0.010	<0.010	0.05	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	0.006	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	0.014	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	0.057	0.17	0.012	0.009
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			0.005	0.006	0.059	0.224	0.011	0.014
Iron			5			2	2.2	55.3	177	9.5	9.1
Lead			0.0075			<0.005	<0.005	0.032	0.056	<0.005	0.005
Manganese			0.15			<0.1	<0.1	0.6	1.3	<0.1	0.1
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	0.2	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	0.1	0.5	<0.1	<0.1

--- - Refers to not applicable or value not available

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

Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table.

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

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

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

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

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

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 12 of 34)
MSA INCLUDING CHICAGO - EXCEEDANCE TABLE
IDOT, District One
IL 47/IL 176 at Pleasant Valley Road
Lakewood, McHenry County, Illinois
BDE Sequence No.: 18785B
PTB: 199-014/HH-2, Work Order No.: 5

Boring ID Sample Depth, ft Sample Date Excavation Area(s) [ISGS Site No.(s)]	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3919-COV-22-07	3919-COV-22-07	3919-COV-30-03	3919-COV-30-03	Dup-04 (3919-COV-30-03)	3919-COV-30-04
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(4-8)	(8-12)	(0-5)	(5-10)	(5-10)	(0-5)
						3/29/2022	3/29/2022	3/29/2022	3/29/2022	3/29/2022	3/29/2022
Parameter											
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.30	8.61	8.51	8.25	7.86	7.59
PID Readings (ppm)						0.0	0.0	0.0	0.0	0.0	0.0
VOCs, mg/kg		NO EXCEEDANCES									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<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	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<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	<0.005	<0.005
SVOCs, mg/kg		NO EXCEEDANCES									
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	---	0.09	---	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<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	<0.33	<0.33
Total Metals, mg/kg											
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	3.6	4	7.6	4.7	4.2	10.3
Barium	1,500	14,000	870,000	5,500	690,000	31.9	29.1	98.9	31	29.2	118
Beryllium	22	410	44,000	160	1,300	<0.5	<0.5	0.5	<0.5	<0.5	0.8
Cadmium	5.2	200	59,000	78	1,800	1.1	1.2	<0.5	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	75100	70400	40500	88700	90200	6160
Chromium	21	4100	690	230	270	14.7	15.5	21	16.4	16.4	24.7
Cobalt	20	12000	---	4,700	---	6.5	8.5	12.7	8.6	5.8	14.6
Copper	2,900	8,200	---	2,900	---	16.6	17.8	24.9	20.9	21.2	31.1
Iron	15,000 / 15,900	---	---	---	---	16200	16700	23900	18400	18300	30900
Lead	107	700	---	400	---	8.6	8.8	14.6	9.7	9.7	18
Magnesium	325,000	730,000	---	325,000	---	39000	35500	27200	44100	47000	5630
Manganese	630 / 636	4100	8,700	1,600	---	307	341	628	345	318	583
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	20.1	21.5	30.1	22.4	22.5	35
Potassium	---	---	---	---	---	1840	1960	1520	2200	2240	1460
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	204	157	1190	544	398	1130
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	19.2	19.1	30.5	21.8	21.7	41.1
Zinc	5,100	61,000	---	23,000	---	37.2	35.4	43.3	41.3	40.1	57.4
TCLP Metals, mg/L		Class I Groundwater ^{d/}									
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Iron			5			0.5	<0.1	<0.1	<0.1	0.4	0.3
Lead			0.0075			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese			0.15			2.3	1.8	11.9	1	0.9	4.8
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	0.01	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SPLP Metals, mg/L		Class I Groundwater ^{d/}									
Arsenic			0.05			0.047	0.016	<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			0.149	0.064	0.02	0.014	0.014	0.039
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			0.178	0.072	0.013	0.011	0.016	0.028
Iron			5			160	64.1	14.2	11.8	10.5	35.8
Lead			0.0075			0.074	0.03	<0.005	<0.005	<0.005	0.011
Manganese			0.15			1.5	0.6	0.2	<0.1	<0.1	0.3
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			0.4	0.2	<0.1	<0.1	<0.1	<0.1

--- - Refers to not applicable or value not available

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

Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table.

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

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

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

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

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

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 13 of 34)
MSA INCLUDING CHICAGO - EXCEEDANCE TABLE
IDOT, District One
IL 47/IL 176 at Pleasant Valley Road
Lakewood, McHenry County, Illinois
BDE Sequence No.: 18785B
PTB: 199-014/HH-2, Work Order No.: 5

Boring ID Sample Depth, ft Sample Date Excavation Area(s) [ISGS Site No.(s)]	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3919-COV-30-04	3919-COV-30-06	Dup-05 (3919-COV-30-06)	3919-COV-30-06	3919-COV-30-07	3919-COV-30-07
						(5-10)	(0-5)	(0-5)	(5-10)	(0-5)	(5-10)
						3/29/2022	3/29/2022	3/29/2022	3/29/2022	3/29/2022	3/29/2022
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	3919-COV-30	3919-COV-30	3919-COV-30	3919-COV-30	3919-COV-30	3919-COV-30
Parameter											
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.22	8.84	8.80	8.43	7.98	8.35
PID Readings (ppm)						0.0	0.0	0.0	0.0	0.0	0.0
VOCs, mg/kg		NO EXCEEDANCES									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<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	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<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	<0.005	<0.005
SVOCs, mg/kg		NO EXCEEDANCES									
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	---	0.09	---	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<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	<0.33	<0.33
Total Metals, mg/kg											
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	5.5	5.6	6.6	5.2	2.6	5.4
Barium	1,500	14,000	870,000	5,500	690,000	21.6	66.5	67.4	33.6	97.2	47.2
Beryllium	22	410	44,000	160	1,300	<0.5	0.6	0.6	<0.5	0.7	0.5
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	113000	49000	41200	82500	64900	85700
Chromium	21	4100	690	230	270	9.4	20.7	19.4	16.7	20.1	17.8
Cobalt	20	12000	---	4,700	---	6.4	7.8	12.7	10.4	10.1	8
Copper	2,900	8,200	---	2,900	---	17.6	19.9	19.4	22.9	21.9	19.9
Iron	15,000 / 15,900	---	---	---	---	13700	22200	21800	19400	21100	19800
Lead	107	700	---	400	---	7.5	11.1	13.2	10.4	9.5	9.2
Magnesium	325,000	730,000	---	325,000	---	55600	25900	22800	41600	41400	45800
Manganese	630 / 636	4100	8,700	1,600	---	479	332	635	407	532	440
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	15.3	21.9	23	25	25.2	23.8
Potassium	---	---	---	---	---	900	1600	1430	2180	1560	1930
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	217	1580	1300	560	466	281
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	15.7	33.2	32.8	25.4	27.5	22.2
Zinc	5,100	61,000	---	23,000	---	30.8	44.8	42.2	42.4	42.5	47.1
TCLP Metals, mg/L		Class I Groundwater ^{d/}									
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Iron			5			<0.1	<0.1	<0.1	0.1	0.6	<0.1
Lead			0.0075			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese			0.15			1.8	<0.1	<0.1	3.5	6.4	1.1
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SPLP Metals, mg/L		Class I Groundwater ^{d/}									
Arsenic			0.05			<0.010	<0.010	0.038	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			0.01	0.044	0.128	0.056	0.031	0.008
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			0.008	0.035	0.15	0.043	0.02	<0.005
Iron			5			8.5	40.7	137	50	24.4	5.2
Lead			0.0075			<0.005	0.011	0.046	0.018	0.007	<0.005
Manganese			0.15			<0.1	0.2	0.9	0.2	0.2	<0.1
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	0.2	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	0.1	0.4	0.1	<0.1	<0.1

--- - Refers to not applicable or value not available

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

Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table.

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

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

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

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

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

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 14 of 34)
MSA INCLUDING CHICAGO - EXCEEDANCE TABLE
IDOT, District One
IL 47/IL 176 at Pleasant Valley Road
Lakewood, McHenry County, Illinois
BDE Sequence No.: 18785B
PTB: 199-014/HH-2, Work Order No.: 5

Boring ID Sample Depth, ft Sample Date Excavation Area(s) [ISGS Site No.(s)]	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3919-COV-30-08	3919-COV-30-08	3919-COV-30-09	3919-COV-30-09	3919-COV-30-12	3919-COV-30-12
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(0-5)	(5-10)	(0-5)	(5-10)	(0-5)	(5-10)
						3/29/2022	3/29/2022	3/29/2022	3/29/2022	4/1/2022	4/1/2022
						3919-COV-30	3919-COV-30	3919-COV-30	3919-COV-30	3919-COV-30	3919-COV-30
Parameter											
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.16	8.44	8.35	8.33	8.67	8.23
PID Readings (ppm)						0.0	0.0	0.0	0.0	0.0	0.0
VOCs, mg/kg											
NO EXCEEDANCES											
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<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	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<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	<0.005	<0.005
SVOCs, mg/kg											
NO EXCEEDANCES											
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	---	0.09	---	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<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	<0.33	<0.33
Total Metals, mg/kg											
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	6.6	10.6	3.1	1.2	5.3	3.6
Barium	1,500	14,000	870,000	5,500	690,000	105	77.6	99.6	150	37.2	38.2
Beryllium	22	410	44,000	160	1,300	0.9	0.7	0.6	0.8	<0.5	<0.5
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5	0.7	0.7
Calcium	---	---	---	---	---	11700	4040	20800	27500	73600	77500
Chromium	21	4100	690	230	270	24.9	23.8	18	21.3	14.5	16
Cobalt	20	12000	---	4,700	---	12	11.3	7.4	8	9.8	10.1
Copper	2,900	8,200	---	2,900	---	21.8	29.1	20.1	26.2	19.2	18.4
Iron	15,000 / 15,900	---	---	---	---	26200	33400	16200	16200	17500	17700
Lead	107	700	---	400	---	15.3	15.8	15.7	11.7	9.5	8.5
Magnesium	325,000	730,000	---	325,000	---	9170	4730	11700	17600	39100	39900
Manganese	630 / 636	4100	8,700	1,600	---	256	161	238	172	433	396
Mercury	0.89	61	0.1	23	10	<0.05	0.06	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	26.3	20.3	16.7	21.9	22.7	22.6
Potassium	---	---	---	---	---	1510	1380	1240	783	1740	2260
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	1380	539	1520	643	1100	371
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	42.7	39.5	31.7	26.8	25.4	20.9
Zinc	5,100	61,000	---	23,000	---	48.2	72	64.9	46.1	37.3	39.5
TCLP Metals, mg/L											
Class I Groundwater ^{d/}											
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Iron			5			0.2	0.5	<0.1	<0.1	<0.1	<0.1
Lead			0.0075			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese			0.15			3.4	0.9	3.9	4.5	1.6	1.6
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SPLP Metals, mg/L											
Class I Groundwater ^{d/}											
Arsenic			0.05			0.012	<0.010	<0.010	<0.010	0.012	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			0.056	0.046	0.022	0.026	0.042	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			0.044	0.042	0.022	0.031	0.042	<0.005
Iron			5			53.6	43.9	17.8	16.6	43.1	3
Lead			0.0075			0.02	0.018	0.012	0.009	0.015	<0.005
Manganese			0.15			0.6	0.2	0.2	<0.1	0.2	<0.1
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			0.1	0.1	<0.1	<0.1	0.1	<0.1

--- - Refers to not applicable or value not available

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

Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table.

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

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

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

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

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

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 15 of 34)
MSA INCLUDING CHICAGO - EXCEEDANCE TABLE
IDOT, District One
IL 47/IL 176 at Pleasant Valley Road
Lakewood, McHenry County, Illinois
BDE Sequence No.: 18785B
PTB: 199-014/HH-2, Work Order No.: 5

Boring ID Sample Depth, ft Sample Date Excavation Area(s) [ISGS Site No.(s)]	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3919-COV-40-01	3919-COV-40-01	3919-COV-40-01	3919-COV-40-01	3919-COV-40-02	3919-COV-40-02
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(0-5)	(5-10)	(10-15)	(15-21)	(0-5)	(5-10)
						4/8/2022	4/8/2022	4/8/2022	4/8/2022	4/1/2022	4/1/2022
						3919-COV-40	3919-COV-40	3919-COV-40	3919-COV-40	3919-COV-40	3919-COV-40
Parameter											
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.91	8.48	8.45	8.48	8.34	8.67
PID Readings (ppm)						0.0	0.0	0.0	0.0	0.0	0.0
VOCs, mg/kg											
NO EXCEEDANCES											
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<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	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<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	<0.005	<0.005
SVOCs, mg/kg											
NO EXCEEDANCES											
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	---	0.09	---	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<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	<0.33	<0.33
Total Metals, mg/kg											
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	5	3.7	5.3	5.9	3.2	1.0
Barium	1,500	14,000	870,000	5,500	690,000	31.4	27.7	28.3	27.5	132	33.4
Beryllium	22	410	44,000	160	1,300	<0.5	<0.5	<0.5	<0.5	0.8	0.5
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5	0.6	0.6
Calcium	---	---	---	---	---	88000	92700	92200	94300	7840	81700
Chromium	21	4100	690	230	270	17.3	15.3	14.8	14	19.7	17.3
Cobalt	20	12000	---	4,700	---	7.4	9	9.1	9.4	8	8.7
Copper	2,900	8,200	---	2,900	---	27.5	20	21.3	22	20.8	19.6
Iron	15,000 / 15,900	---	---	---	---	19600	16000	17600	17500	19300	15100
Lead	107	700	---	400	---	10.2	9.3	9.8	10.5	14.9	9.2
Magnesium	325,000	730,000	---	325,000	---	44300	46900	47300	47700	4880	41100
Manganese	630 / 636	4100	8,700	1,600	---	333	412	417	421	273	380
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	22	22.3	22.9	22.7	19.9	23.9
Potassium	---	---	---	---	---	2540	2500	2500	2440	1360	2360
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	712	286	188	187	3760	820
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	23.6	20.6	19.4	18.5	31.6	21.1
Zinc	5,100	61,000	---	23,000	---	43	37.8	36.9	39.6	54.5	43.1
TCLP Metals, mg/L											
Class I Groundwater ^{d/}											
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Iron			5			<0.1	<0.1	<0.1	0.1	<0.1	<0.1
Lead			0.0075			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese			0.15			4.1	1.6	1.4	1.6	4.6	2.2
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	0.011	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SPLP Metals, mg/L											
Class I Groundwater ^{d/}											
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			0.038	<0.005	<0.005	<0.005	0.054	0.023
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			0.045	<0.005	<0.005	<0.005	0.038	0.02
Iron			5			35.5	1.1	1.7	0.4	45.6	16.7
Lead			0.0075			0.016	<0.005	<0.005	<0.005	0.017	0.009
Manganese			0.15			0.2	<0.1	<0.1	<0.1	0.4	0.1
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			0.1	<0.1	<0.1	<0.1	0.1	<0.1

--- - Refers to not applicable or value not available

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

Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table.

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

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

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

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

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

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 16 of 34)
MSA INCLUDING CHICAGO - EXCEEDANCE TABLE
IDOT, District One
IL 47/IL 176 at Pleasant Valley Road
Lakewood, McHenry County, Illinois
BDE Sequence No.: 18785B
PTB: 199-014/HH-2, Work Order No.: 5

Boring ID Sample Depth, ft Sample Date Excavation Area(s) [ISGS Site No.(s)]	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		Dup-07 (3919-COV-40-02)	3919-COV-40-02	3919-COV-40-02	3919-COV-41-02	3919-COV-41-02	3919-COV-41-05	
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(5-10)	(10-15)	(15-21)	(0-5)	(5-11)	(0-5)	
						4/1/2022	4/1/2022	4/1/2022	4/11/2022	4/11/2022	4/6/2022	
						3919-COV-40	3919-COV-40	3919-COV-40	3919-COV-41	3919-COV-41	3919-COV-41	
Parameter												
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.90	8.58	8.72	8.73	8.83	8.05	
PID Readings (ppm)						0.0	0.0	0.0	0.0	0.0	0.0	
VOCs, mg/kg		NO EXCEEDANCES										
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<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	<0.005	<0.005	
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<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	<0.005	<0.005	
SVOCs, mg/kg		NO EXCEEDANCES										
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	---	0.09	---	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<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	<0.33	<0.33	
Total Metals, mg/kg												
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Arsenic	11.3 / 13	61	25,000	---	750	3.8	3.9	1.8	2.4	2.3	2.8	
Barium	1,500	14,000	870,000	5,500	690,000	29	23	25.5	44	22.6	122	
Beryllium	22	410	44,000	160	1,300	<0.5	<0.5	<0.5	<0.5	<0.5	1	
Cadmium	5.2	200	59,000	78	1,800	0.6	0.6	<0.5	<0.5	<0.5	1.6	
Calcium	---	---	---	---	---	72500	90700	69500	58700	68100	17700	
Chromium	21	4100	690	230	270	13.2	12.1	9.5	13.7	8.7	19.8	
Cobalt	20	12000	---	4,700	---	7	7.4	4.1	5	4.1	8.8	
Copper	2,900	8,200	---	2,900	---	19.5	17.2	10.5	13	11.5	29.3	
Iron	15,000 / 15,900	---	---	---	---	14600	15200	9760	13600	9780	14800	
Lead	107	700	---	400	---	9.6	9.2	3.6	7.2	4	13.5	
Magnesium	325,000	730,000	---	325,000	---	38000	48700	32800	28900	33500	11500	
Manganese	630 / 636	4100	8,700	1,600	---	360	357	218	214	217	106	
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Nickel	100	4100	440,000	1,600	13,000	19	19.2	10.6	12.6	10.7	25.3	
Potassium	---	---	---	---	---	1570	1790	1250	866	1040	1090	
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
Sodium	---	---	---	---	---	769	243	140	416	376	1990	
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Vanadium	550	1400	---	550	---	17.4	16	13.9	21.8	14.1	31.4	
Zinc	5,100	61,000	---	23,000	---	37.6	30.2	16.6	29.4	23.4	48	
TCLP Metals, mg/L		Class I Groundwater ^{d/}										
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Copper			0.65			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Iron			5			<0.1	<0.1	<0.1	<0.1	<0.1	0.2	
Lead			0.0075			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Manganese			0.15			1.4	1.8	1.5	<0.1	0.8	0.4	
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Selenium			0.05			<0.010	0.012	<0.010	<0.010	<0.010	<0.010	
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Zinc			5			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
SPLP Metals, mg/L		Class I Groundwater ^{d/}										
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	0.01	<0.010	
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Chromium			0.1			0.036	0.005	<0.005	0.013	0.031	0.026	
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Copper			0.65			0.031	0.005	<0.005	0.007	0.041	0.044	
Iron			5			30.3	3.9	1.1	9.3	31.4	16	
Lead			0.0075			0.012	<0.005	<0.005	<0.005	0.013	0.009	
Manganese			0.15			0.2	<0.1	<0.1	<0.1	0.3	<0.1	
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Zinc			5			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	

--- - Refers to not applicable or value not available

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

Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table.

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

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

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

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

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

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 17 of 34)
MSA INCLUDING CHICAGO - EXCEEDANCE TABLE
IDOT, District One
IL 47/IL 176 at Pleasant Valley Road
Lakewood, McHenry County, Illinois
BDE Sequence No.: 18785B
PTB: 199-014/HH-2, Work Order No.: 5

Boring ID Sample Depth, ft Sample Date Excavation Area(s) [ISGS Site No.(s)]	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3919-COV-41-05	3919-COV-41-14	3919-COV-41-14	3919-COV-41-14	3919-COV-41-14	3919-COV-41-14	
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(5-11)	(0-5)	(5-10)	(10-15)	(15-20)	(20-25)	
						4/6/2022	4/8/2022	4/8/2022	4/8/2022	4/8/2022	4/8/2022	
						3919-COV-41	3919-COV-41	3919-COV-41	3919-COV-41	3919-COV-41	3919-COV-41	
Parameter												
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.40	8.56	8.13	7.56	8.12	8.05	
PID Readings (ppm)						0.0	0.0	0.0	0.0	0.0	0.0	
VOCs, mg/kg		NO EXCEEDANCES										
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	0.313	<0.2	<0.2	<0.2	
Benzene	0.03	2,300	2.2	12	0.8	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<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	<0.005	<0.005	
SVOCs, mg/kg		NO EXCEEDANCES										
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	---	0.09	---	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<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	<0.33	<0.33	
Total Metals, mg/kg												
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Arsenic	11.3 / 13	61	25,000	---	750	2.7	3.7	2.5	<1.0	4.4	5.9	
Barium	1,500	14,000	870,000	5,500	690,000	28.9	45.6	57.9	31	32.8	30.4	
Beryllium	22	410	44,000	160	1,300	<0.5	<0.5	<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	<0.5	<0.5	
Calcium	---	---	---	---	---	98700	71900	40000	55800	85100	79200	
Chromium	21	4100	690	230	270	11.4	13.1	14.9	8.3	16.1	14.5	
Cobalt	20	12000	---	4,700	---	5.5	6.4	6.6	3.6	9.5	9.2	
Copper	2,900	8,200	---	2,900	---	14.6	18.4	21	8.4	20.6	21.2	
Iron	15,000 / 15,900	---	---	---	---	11900	13400	14000	10300	17900	17800	
Lead	107	700	---	400	---	6.9	18.9	9.5	4.6	9.5	9.6	
Magnesium	325,000	730,000	---	325,000	---	55000	38400	325000	26400	43100	39600	
Manganese	630 / 636	4100	8,700	1,600	---	320	334	231	275	400	389	
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Nickel	100	4100	440,000	1,600	13,000	16	16.5	19.9	8.2	24	23.4	
Potassium	---	---	---	---	---	1530	1200	1340	711	2540	2250	
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
Sodium	---	---	---	---	---	1050	2180	2150	435	201	180	
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Vanadium	550	1400	---	550	---	15.6	22.2	22.2	26.5	20.9	19.1	
Zinc	5,100	61,000	---	23,000	---	29.4	36.2	52.3	18.9	35.3	35.3	
TCLP Metals, mg/L		Class I Groundwater ^{d/}										
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	
Cadmium			0.005			0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Copper			0.65			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Iron			5			<0.1	<0.1	<0.1	0.1	0.2	<0.1	
Lead			0.0075			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Manganese			0.15			1.4	3	2.9	2.9	1.7	1.7	
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Zinc			5			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
SPLP Metals, mg/L		Class I Groundwater ^{d/}										
Arsenic			0.05			0.043	0.012	<0.010	<0.010	<0.010	<0.010	
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Chromium			0.1			0.082	0.051	<0.005	<0.005	<0.005	<0.005	
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Copper			0.65			0.092	0.059	<0.005	<0.005	<0.005	<0.005	
Iron			5			103	40	1.6	0.3	1.6	1.9	
Lead			0.0075			0.057	0.035	<0.005	<0.005	<0.005	<0.005	
Manganese			0.15			0.9	0.2	<0.1	<0.1	<0.1	<0.1	
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Nickel			0.1			0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Zinc			5			0.2	0.1	<0.1	<0.1	<0.1	<0.1	

--- - Refers to not applicable or value not available

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

Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table.

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

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

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

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

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

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 18 of 34)
MSA INCLUDING CHICAGO - EXCEEDANCE TABLE
IDOT, District One
IL 47/IL 176 at Pleasant Valley Road
Lakewood, McHenry County, Illinois
BDE Sequence No.: 18785B
PTB: 199-014/HH-2, Work Order No.: 5

Boring ID Sample Depth, ft Sample Date Excavation Area(s) [ISGS Site No.(s)]	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		Dup-19 (3919-COV-41-14)	3919-COV-41-20	3919-COV-41-20	3919-COV-41-24	3919-COV-41-24	3919-COV-41-27
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(20-25)	(0-5)	(5-11)	(0-5)	(5-11)	(0-5)
						4/8/2022	4/8/2022	4/8/2022	4/8/2022	4/8/2022	4/7/2022
						3919-COV-41	3919-COV-41	3919-COV-41	3919-COV-41	3919-COV-41	3919-COV-41
Parameter											
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.13	8.51	8.35	8.23	8.70	7.88
PID Readings (ppm)						0.0	0.0	0.0	0.0	0.0	0.0
VOCs, mg/kg											
NO EXCEEDANCES											
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<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	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<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	<0.005	<0.005
SVOCs, mg/kg											
NO EXCEEDANCES											
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	---	0.09	---	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<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	<0.33	<0.33
Total Metals, mg/kg											
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	4.4	4.8	5.8	2.2	4.1	5.9
Barium	1,500	14,000	870,000	5,500	690,000	41.9	85.5	28.9	84.1	29.9	75.3
Beryllium	22	410	44,000	160	1,300	<0.5	0.6	<0.5	0.7	<0.5	0.5
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	88500	13400	70900	6220	82600	8130
Chromium	21	4100	690	230	270	14.3	16.6	11.3	20.9	13.7	19.2
Cobalt	20	12000	---	4,700	---	8.3	7.3	8	9.1	7.7	11.7
Copper	2,900	8,200	---	2,900	---	17.3	16.7	14.4	19.4	17.6	19.7
Iron	15,000 / 15,900	---	---	---	---	15600	17900	35600	19300	17700	20100
Lead	107	700	---	400	---	8.2	13.3	7.6	19.4	7.8	19.8
Magnesium	325,000	730,000	---	325,000	---	50500	8260	35900	5240	43300	6650
Manganese	630 / 636	4100	8,700	1,600	---	352	228	458	235	374	217
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	20.8	17.7	22	22.4	20.7	22.2
Potassium	---	---	---	---	---	3370	826	1520	1610	1960	1140
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	238	2460	883	811	350	707
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	19.2	32.6	16.8	32.2	18.9	29.6
Zinc	5,100	61,000	---	23,000	---	32.3	38.9	31.9	51.7	46.4	48.5
TCLP Metals, mg/L											
Class I Groundwater ^{d/}											
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Iron			5			<0.1	2.6	0.1	<0.1	<0.1	2.2
Lead			0.0075			<0.005	<0.005	<0.005	<0.005	<0.005	0.013
Manganese			0.15			1.8	3.4	1.4	5.3	1.3	9
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SPLP Metals, mg/L											
Class I Groundwater ^{d/}											
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	0.014
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	0.056	0.016	0.036	0.026	0.051
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.005	0.029	0.015	0.022	0.021	0.045
Iron			5			0.8	45.3	14.7	27.6	23.5	49.8
Lead			0.0075			<0.005	0.014	0.007	0.011	0.005	0.027
Manganese			0.15			<0.1	0.3	<0.1	0.2	0.1	0.4
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1	<0.1	0.1

--- - Refers to not applicable or value not available

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

Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table.

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

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

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

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

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

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 19 of 34)
MSA INCLUDING CHICAGO - EXCEEDANCE TABLE
IDOT, District One
IL 47/IL 176 at Pleasant Valley Road
Lakewood, McHenry County, Illinois
BDE Sequence No.: 18785B
PTB: 199-014/HH-2, Work Order No.: 5

Boring ID Sample Depth, ft Sample Date Excavation Area(s) [ISGS Site No.(s)]	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3919-COV-41-27	3919-COV-41-28	Dup-17 (3919-COV-41-28)	3919-COV-41-28	3919-COV-41-31	3919-COV-41-31
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(5-11)	(0-5)	(0-5)	(5-11)	(0-5)	(5-11)
						4/7/2022	4/7/2022	4/7/2022	4/7/2022	4/7/2022	4/7/2022
						3919-COV-41	3919-COV-41	3919-COV-41	3919-COV-41	3919-COV-41	3919-COV-41
Parameter											
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	7.68	8.83	8.90	8.98	7.99	8.62
PID Readings (ppm)						0.0	0.0	0.0	0.0	0.0	0.0
VOCs, mg/kg											
NO EXCEEDANCES											
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<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	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<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	<0.005	<0.005
SVOCs, mg/kg											
NO EXCEEDANCES											
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	---	0.09	---	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<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	<0.33	<0.33
Total Metals, mg/kg											
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	4.5	5.6	6	1.7	3.6	6
Barium	1,500	14,000	870,000	5,500	690,000	51.9	22.9	54.7	16.9	79.5	45.2
Beryllium	22	410	44,000	160	1,300	0.5	<0.5	0.6	<0.5	0.6	0.5
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	31800	93500	48100	67600	15900	60500
Chromium	21	4100	690	230	270	16.7	11.3	19.5	8.1	17.3	19.1
Cobalt	20	12000	---	4,700	---	7.7	7.7	10.1	3.2	9	7.4
Copper	2,900	8,200	---	2,900	---	18.6	18.2	26.4	8.9	19.4	24.1
Iron	15,000 / 15,900	---	---	---	---	16300	14600	21100	7890	17300	23600
Lead	107	700	---	400	---	12.3	8.6	20.2	3.7	30.9	12.4
Magnesium	325,000	730,000	---	325,000	---	14700	49200	29400	32300	10300	34600
Manganese	630 / 636	4100	8,700	1,600	---	272	366	514	196	234	234
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	17.6	18.2	25.9	8.1	19.4	24.9
Potassium	---	---	---	---	---	1050	1360	1670	743	1340	2100
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	246	1080	1950	384	699	498
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	26.2	17.3	26.3	12.6	27.1	28.2
Zinc	5,100	61,000	---	23,000	---	38.6	40.9	50.2	20.7	67.4	53.8
TCLP Metals, mg/L											
Class I Groundwater ^{d/}											
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Iron			5			<0.1	0.1	0.2	0.2	0.4	<0.1
Lead			0.0075			<0.005	<0.005	<0.005	<0.005	0.016	<0.005
Manganese			0.15			4.7	5.5	6.5	1.3	2.8	2.1
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1	0.3	<0.1
SPLP Metals, mg/L											
Class I Groundwater ^{d/}											
Arsenic			0.05			<0.010	0.016	<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			0.007	0.038	0.026	0.016	0.03	0.044
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			0.006	0.045	0.027	0.021	0.027	0.026
Iron			5			5.2	43	23.1	14.5	24.1	36.1
Lead			0.0075			<0.005	0.017	0.009	0.005	0.027	0.01
Manganese			0.15			<0.1	0.3	0.2	0.1	0.2	0.2
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	0.1	<0.1	<0.1	<0.1	0.1

--- - Refers to not applicable or value not available

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

Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table.

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

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

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

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

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

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 20 of 34)
MSA INCLUDING CHICAGO - EXCEEDANCE TABLE
IDOT, District One
IL 47/IL 176 at Pleasant Valley Road
Lakewood, McHenry County, Illinois
BDE Sequence No.: 18785B
PTB: 199-014/HH-2, Work Order No.: 5

Boring ID Sample Depth, ft Sample Date Excavation Area(s) [ISGS Site No.(s)]	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3919-COV-41-32	3919-COV-41-32	3919-COV-41-33	3919-COV-41-33	3919-COV-41-35	3919-COV-41-35
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(0-5)	(5-11)	(0-5)	(5-11)	(0-5)	(5-11)
						4/7/2022	4/7/2022	4/7/2022	4/7/2022	4/7/2022	4/7/2022
Parameter											
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.78	8.65	8.94	8.54	8.60	8.35
PID Readings (ppm)						0.0	0.0	0.0	0.0	0.0	0.0
VOCs, mg/kg		NO EXCEEDANCES									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<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	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<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	<0.005	<0.005
SVOCs, mg/kg		NO EXCEEDANCES									
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	---	0.09	---	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<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	<0.33	<0.33
Total Metals, mg/kg											
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	6.4	4.5	2.4	2.5	4.2	3.4
Barium	1,500	14,000	870,000	5,500	690,000	68.2	21.1	18	11.6	62.8	38.9
Beryllium	22	410	44,000	160	1,300	0.6	<0.5	<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	<0.5	<0.5
Calcium	---	---	---	---	---	46200	76100	78700	77200	8850	64400
Chromium	21	4100	690	230	270	18.6	12.8	8.3	7.5	17.5	10.8
Cobalt	20	12000	---	4,700	---	12	8.5	3.5	3.7	9.8	6.1
Copper	2,900	8,200	---	2,900	---	23.3	17.5	9.6	10	14.5	13.8
Iron	15,000 / 15,900	---	---	---	---	22700	16900	8500	7990	18200	12400
Lead	107	700	---	400	---	15.3	9.9	7.5	5.9	10.6	7.4
Magnesium	325,000	730,000	---	325,000	---	25800	40600	46300	39900	6470	31700
Manganese	630 / 636	4100	8,700	1,600	---	390	349	220	233	295	346
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	26	21.1	7.2	9.6	17	13.3
Potassium	---	---	---	---	---	1520	1760	400	802	1090	1190
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	1350	185	657	123	941	653
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	27.7	21	15.6	10.8	31.1	17.6
Zinc	5,100	61,000	---	23,000	---	45.9	40.1	18.8	18	34.3	28.7
TCLP Metals, mg/L		Class I Groundwater ^{d/}									
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Iron			5			<0.1	<0.1	0.4	0.3	4	<0.1
Lead			0.0075			<0.005	<0.005	<0.005	<0.005	0.006	<0.005
Manganese			0.15			6.1	1.7	0.5	1	9.3	3.9
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SPLP Metals, mg/L		Class I Groundwater ^{d/}									
Arsenic			0.05			0.032	<0.010	<0.010	<0.010	0.018	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			0.102	0.035	0.037	0.006	0.072	0.008
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			0.11	0.033	0.037	<0.005	0.061	0.007
Iron			5			104	33.2	35.8	4.2	68.3	7
Lead			0.0075			0.058	0.016	0.027	<0.005	0.036	<0.005
Manganese			0.15			0.9	0.2	0.3	<0.1	0.7	<0.1
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			0.2	0.1	0.1	<0.1	0.1	<0.1

--- - Refers to not applicable or value not available

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

Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table.

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

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

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

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


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

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 21 of 34)
MSA INCLUDING CHICAGO - EXCEEDANCE TABLE
IDOT, District One
IL 47/IL 176 at Pleasant Valley Road
Lakewood, McHenry County, Illinois
BDE Sequence No.: 18785B
PTB: 199-014/HH-2, Work Order No.: 5

Boring ID Sample Depth, ft Sample Date Excavation Area(s) [ISGS Site No.(s)]	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3919-COV-41-36	3919-COV-41-36	3919-COV-47-01	3919-COV-47-01	3919-COV-47-01	3919-COV-47-01
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(0-5)	(5-11)	(0-5)	(5-10)	(10-15)	(15-20)
						4/7/2022	4/7/2022	4/11/2022	4/11/2022	4/11/2022	4/11/2022
						3919-COV-41	3919-COV-41	3919-COV-47	3919-COV-47	3919-COV-47	3919-COV-47
Parameter											
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.20	8.98	8.85	8.49	8.35	8.56
PID Readings (ppm)						0.0	0.0	0.0	0.0	0.0	0.0
VOCs, mg/kg		NO EXCEEDANCES									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<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	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<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	<0.005	<0.005
SVOCs, mg/kg		NO EXCEEDANCES									
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	---	0.09	---	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<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	<0.33	<0.33
Total Metals, mg/kg											
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	5.8	6	6.1	7.4	4.1	1.2
Barium	1,500	14,000	870,000	5,500	690,000	61.3	21.5	31.6	26.9	21.5	21.4
Beryllium	22	410	44,000	160	1,300	0.7	<0.5	<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	<0.5	<0.5
Calcium	---	---	---	---	---	1950	114000	70500	82400	82300	75300
Chromium	21	4100	690	230	270	21.1	12.6	16.3	15	12.9	7.9
Cobalt	20	12000	---	4,700	---	12	8.2	11.1	25.8	8.4	3.6
Copper	2,900	8,200	---	2,900	---	20.4	21.6	20.6	20.1	18.5	171
Iron	15,000 / 15,900	---	---	---	---	20300	17900	18600	20500	14300	8940
Lead	107	700	---	400	---	15.7	11.4	12.9	11	10.1	4
Magnesium	325,000	730,000	---	325,000	---	3680	60300	38600	45600	44400	37200
Manganese	630 / 636	4100	8,700	1,600	---	179	504	437	491	390	236
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	23.6	20.7	28.8	33.9	20.2	9.6
Potassium	---	---	---	---	---	1890	1860	1810	1970	1800	986
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	1300	1220	858	497	305	134
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	29.9	17.3	19.6	20.1	17.1	13
Zinc	5,100	61,000	---	23,000	---	48.6	45.8	50.9	45.9	34.8	20.1
TCLP Metals, mg/L		Class I Groundwater ^{d/}									
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			0.006	<0.005	<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Iron			5			3.7	<0.1	<0.1	<0.1	<0.1	0.1
Lead			0.0075			0.008	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese			0.15			15.6	1.6	4.3	0.6	1.9	2
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium			0.05			0.012	<0.010	0.013	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SPLP Metals, mg/L		Class I Groundwater ^{d/}									
Arsenic			0.05			<0.010	0.016	<0.010	0.02	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			0.04	0.03	0.032	0.067	0.033	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			0.05	0.043	0.029	0.098	0.041	<0.005
Iron			5			35	37.7	31.6	68.7	23	0.6
Lead			0.0075			0.02	0.015	0.01	0.032	0.016	<0.005
Manganese			0.15			0.3	0.2	0.1	0.3	0.4	<0.1
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	0.1	<0.1	0.2	<0.1	<0.1

--- - Refers to not applicable or value not available
^{a/} Soil reference concentrations from MAC table. Background values for MSA counties are included as applicable.
Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table.
Inorganic Soil Reference Concentrations (xx.xx / xx.xx) Include the Most Stringent values from the MAC Table / and the MSA County Value From the MAC Table as Applicable.
^{b/} Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B
^{c/} Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A
^{d/} Soil Remediation Objective for the Groundwater Component of the Groundwater Ingestion Route, Class I Groundwater.
When comparing results to the Soil Remediation Objectives, IDOT compares to the most stringent of the ingestion or inhalation exposure route value.
Bold indicates concentration detected
 Shaded values indicate concentration exceeds reference concentration

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MSA INCLUDING CHICAGO - EXCEEDANCE TABLE
IDOT, District One
IL 47/IL 176 at Pleasant Valley Road
Lakewood, McHenry County, Illinois
BDE Sequence No.: 18785B
PTB: 199-014/HH-2, Work Order No.: 5

Boring ID Sample Depth, ft Sample Date Excavation Area(s) [ISGS Site No.(s)]	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		Dup-22 (3919-COV-47-01)	3919-COV-47-01	3919-COV-47-03	3919-COV-47-03	Dup-36 (3919-COV-47-03)	3919-COV-47-09
						(15-20)	(20-25)	(0-4)	(4-8)	(4-8)	(0-4)
						4/11/2022	4/11/2022	4/15/2022	4/15/2022	4/15/2022	4/15/2022
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	3919-COV-47	3919-COV-47	3919-COV-47	3919-COV-47	3919-COV-47	3919-COV-47
Parameter											
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.44	8.55	8.30	8.58	8.57	8.57
PID Readings (ppm)						0.0	0.0	0.0	0.0	0.0	0.0
VOCs, mg/kg		NO EXCEEDANCES									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<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	<0.005	0.0065
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005	<0.005	0.0092
Xylenes, Total	5.6	41,000	5.6	16,000	320	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SVOCs, mg/kg		NO EXCEEDANCES									
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	---	0.09	---	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<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	<0.33	<0.33
Total Metals, mg/kg											
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	2	<1.0	12.6	3.1	6.8	1.9
Barium	1,500	14,000	870,000	5,500	690,000	17.6	20.5	47.8	28.8	29.9	32.1
Beryllium	22	410	44,000	160	1,300	<0.5	<0.5	0.6	0.6	<0.5	<0.5
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	70600	73200	68200	69200	73500	62600
Chromium	21	4100	690	230	270	7.1	7.9	17	14.8	14.4	10.1
Cobalt	20	12000	---	4,700	---	3.2	3.5	13.7	4.9	8	4.3
Copper	2,900	8,200	---	2,900	---	8.1	8.6	24.8	18.1	22.8	10
Iron	15,000 / 15,900	---	---	---	---	8270	8340	22400	15300	19600	11000
Lead	107	700	---	400	---	3.4	3.8	13.7	10.5	10.5	4.6
Magnesium	325,000	730,000	---	325,000	---	36100	36600	42200	38500	38100	33100
Manganese	630 / 636	4100	8,700	1,600	---	208	216	508	256	315	235
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	8.3	9.3	28.8	15.3	21	11.7
Potassium	---	---	---	---	---	856	1010	1520	1640	1740	1150
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	128	122	130	120	114	104
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	11.4	12.6	26	17.4	18.6	14.3
Zinc	5,100	61,000	---	23,000	---	18.6	19.2	54.1	45.8	48.8	26.3
TCLP Metals, mg/L		Class I Groundwater ^{d/}									
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Iron			5			<0.1	<0.1	0.3	<0.1	<0.1	<0.1
Lead			0.0075			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese			0.15			1.8	1.6	1.2	0.8	0.3	0.7
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SPLP Metals, mg/L		Class I Groundwater ^{d/}									
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	0.035	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	0.01	0.008	0.051	0.013
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.005	<0.005	0.01	0.008	0.052	0.015
Iron			5			<0.1	0.2	9	6.6	51.9	12.1
Lead			0.0075			<0.005	<0.005	<0.005	<0.005	0.02	<0.005
Manganese			0.15			<0.1	<0.1	<0.1	<0.1	0.2	0.1
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1	0.2	<0.1

--- - Refers to not applicable or value not available

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

Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table.

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

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

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

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

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

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 23 of 34)
MSA INCLUDING CHICAGO - EXCEEDANCE TABLE
IDOT, District One
IL 47/IL 176 at Pleasant Valley Road
Lakewood, McHenry County, Illinois
BDE Sequence No.: 18785B
PTB: 199-014/HH-2, Work Order No.: 5

Boring ID Sample Depth, ft Sample Date Excavation Area(s) [ISGS Site No.(s)]	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3919-COV-47-09	3919-COV-47-10	3919-COV-47-10	3919-COV-47-12	3919-COV-47-12	3919-COV-48-01
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(4-8)	(0-4)	(4-8)	(0-4)	(4-8)	(0-5)
						4/15/2022	4/15/2022	4/15/2022	4/15/2022	4/15/2022	4/11/2022
						3919-COV-47	3919-COV-47	3919-COV-47	3919-COV-47	3919-COV-47	3919-COV-48
Parameter											
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.72	8.75	8.8	8.8	8.72	8.17
PID Readings (ppm)						0.0	0.0	0.0	0.0	0.0	0.1
VOCs, mg/kg											
NO EXCEEDANCES											
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<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	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<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	<0.005	<0.005
SVOCs, mg/kg											
NO EXCEEDANCES											
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	---	0.09	---	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<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	<0.33	<0.33
Total Metals, mg/kg											
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	2	4.6	4.6	2.9	4.2	5.2
Barium	1,500	14,000	870,000	5,500	690,000	24	34.8	29	19.4	27.7	125
Beryllium	22	410	44,000	160	1,300	<0.5	<0.5	<0.5	<0.5	<0.5	0.6
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	70900	92200	78800	78600	79700	7710
Chromium	21	4100	690	230	270	10.5	15.1	14.1	7.2	14.4	18
Cobalt	20	12000	---	4,700	---	4.4	8.7	8	5.9	5.6	7.6
Copper	2,900	8,200	---	2,900	---	11.5	19.9	19	10.2	17.5	19.6
Iron	15,000 / 15,900	---	---	---	---	12000	17600	16100	9970	16500	19800
Lead	107	700	---	400	---	4.9	8.7	8.4	5.6	7.9	22.6
Magnesium	325,000	730,000	---	325,000	---	34400	44100	40300	40600	<50	5160
Manganese	630 / 636	4100	8,700	1,600	---	226	378	414	380	271	630
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	12.8	21.3	20.4	12.8	18.9	16
Potassium	---	---	---	---	---	1180	1560	1540	749	2000	2290
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	115	123	122	119	136	583
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	15	21.5	18.7	12.8	19.3	33.9
Zinc	5,100	61,000	---	23,000	---	26.8	36.5	37	17.7	38.5	54.6
TCLP Metals, mg/L											
Class I Groundwater ^{d/}											
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Iron			5			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lead			0.0075			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese			0.15			1	0.4	0.8	0.4	2.9	<0.1
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	0.012	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SPLP Metals, mg/L											
Class I Groundwater ^{d/}											
Arsenic			0.05			0.011	<0.010	0.063	0.04	0.083	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	0.006	<0.005
Chromium			0.1			0.041	0.038	0.095	0.066	0.121	0.019
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			0.049	0.041	0.12	0.064	0.138	0.015
Iron			5			46.4	38.6	103	67.4	130	14.7
Lead			0.0075			0.017	0.014	0.038	0.026	0.062	0.006
Manganese			0.15			0.5	0.4	1.1	0.7	0.8	<0.1
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	0.1	<0.1	0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			0.1	0.1	0.3	0.2	0.3	<0.1

--- - Refers to not applicable or value not available

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

Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table.

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

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

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

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


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

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 24 of 34)
MSA INCLUDING CHICAGO - EXCEEDANCE TABLE
IDOT, District One
IL 47/IL 176 at Pleasant Valley Road
Lakewood, McHenry County, Illinois
BDE Sequence No.: 18785B
PTB: 199-014/HH-2, Work Order No.: 5

Boring ID Sample Depth, ft Sample Date Excavation Area(s) [ISGS Site No.(s)]	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3919-COV-48-01	3919-COV-48-05	3919-COV-48-05	Dup-15 (3919-COV-48-05)	3919-COV-49-01	3919-COV-49-01
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(5-10)	(0-5)	(5-10)	(5-10)	(0-5)	(5-10)
						4/11/2022	4/7/2022	4/7/2022	4/7/2022	4/12/2022	4/12/2022
						3919-COV-48	3919-COV-48	3919-COV-48	3919-COV-48	3919-COV-49	3919-COV-49
Parameter											
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.73	8.66	8.85	8.12	8.59	8.45
PID Readings (ppm)						0.0	0.0	0.0	0.0	0.0	0.0
VOCs, mg/kg											
NO EXCEEDANCES											
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<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	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005	0.0052	<0.005
Xylenes, Total	5.6	41,000	5.6	16,000	320	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SVOCs, mg/kg											
NO EXCEEDANCES											
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	---	0.09	---	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<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	<0.33	<0.33
Total Metals, mg/kg											
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	2	9.2	3.1	3.3	8.6	1.5
Barium	1,500	14,000	870,000	5,500	690,000	42.6	103	41.7	22.4	49.5	60.5
Beryllium	22	410	44,000	160	1,300	<0.5	0.9	<0.5	<0.5	0.6	<0.5
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	79500	3220	93800	69600	1740	17800
Chromium	21	4100	690	230	270	12.7	31.8	15.4	9.1	23.5	16.7
Cobalt	20	12000	---	4,700	---	9.1	14.2	7.9	3.6	10.3	6.5
Copper	2,900	8,200	---	2,900	---	13.5	28.4	17	12.3	26.3	6.9
Iron	15,000 / 15,900	---	---	---	---	12500	35700	15200	9840	26400	14600
Lead	107	700	---	400	---	6.6	16.6	6.2	4.1	12.2	6.3
Magnesium	325,000	730,000	---	325,000	---	39100	5970	44000	29100	3700	11900
Manganese	630 / 636	4100	8,700	1,600	---	503	664	367	190	141	617
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	17.9	32.2	18.6	10.2	29	13.5
Potassium	---	---	---	---	---	1600	2020	2290	992	1920	603
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	257	3620	1090	743	2110	552
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	18.2	40	21.5	14.6	32.6	29.8
Zinc	5,100	61,000	---	23,000	---	27.2	62.5	33.1	22.9	53.4	24.1
TCLP Metals, mg/L											
Class I Groundwater ^{d/}											
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Iron			5			<0.1	0.6	<0.1	<0.1	2.2	0.4
Lead			0.0075			<0.005	<0.005	<0.005	<0.005	0.006	<0.005
Manganese			0.15			1.4	<0.1	1.2	0.8	2.8	23.2
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	0.016
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SPLP Metals, mg/L											
Class I Groundwater ^{d/}											
Arsenic			0.05			<0.010	0.035	0.013	<0.010	0.097	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	0.005	<0.004	<0.004	0.009	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			0.008	0.152	0.052	0.027	0.272	0.008
Cobalt			1			<0.1	<0.1	<0.1	<0.1	0.1	<0.1
Copper			0.65			0.008	0.132	0.067	0.019	0.305	<0.005
Iron			5			6	160	49.4	20.4	293	5.2
Lead			0.0075			<0.005	0.034	0.018	<0.005	0.143	<0.005
Manganese			0.15			<0.1	0.8	0.3	0.1	1.4	<0.1
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	0.1	<0.1	<0.1	0.3	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	0.3	0.1	<0.1	0.6	<0.1

--- - Refers to not applicable or value not available
^{a/} Soil reference concentrations from MAC table. Background values for MSA counties are included as applicable.
Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table.
Inorganic Soil Reference Concentrations (xx.xx / xx.xx) Include the Most Stringent values from the MAC Table / and the MSA County Value From the MAC Table as Applicable.
^{b/} Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B
^{c/} Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A
^{d/} Soil Remediation Objective for the Groundwater Component of the Groundwater Ingestion Route, Class I Groundwater.
When comparing results to the Soil Remediation Objectives, IDOT compares to the most stringent of the ingestion or inhalation exposure route value.
Bold indicates concentration detected
 Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 25 of 34)
MSA INCLUDING CHICAGO - EXCEEDANCE TABLE
IDOT, District One
IL 47/IL 176 at Pleasant Valley Road
Lakewood, McHenry County, Illinois
BDE Sequence No.: 18785B
PTB: 199-014/HH-2, Work Order No.: 5

Boring ID Sample Depth, ft Sample Date Excavation Area(s) [ISGS Site No.(s)]	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3919-COV-49-02	3919-COV-49-02	3919-COV-49-05	3919-COV-49-05	3919-COV-49-06	3919-COV-49-06
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(0-5)	(5-10)	(0-5)	(5-10)	(0-5)	(5-10)
						4/12/2022	4/12/2022	4/11/2022	4/11/2022	4/11/2022	4/11/2022
Parameter											
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.28	8.76	8.93	8.67	8.4	8.98
PID Readings (ppm)						0.0	0.0	0.0	0.0	0.0	0.0
VOCs, mg/kg		NO EXCEEDANCES									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<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	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<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	<0.005	<0.005
SVOCs, mg/kg		NO EXCEEDANCES									
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	---	0.09	---	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<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	<0.33	<0.33
Total Metals, mg/kg											
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	6.1	5.8	2.5	1.6	9.3	6.7
Barium	1,500	14,000	870,000	5,500	690,000	60	28.4	29.7	14.2	53.4	23.9
Beryllium	22	410	44,000	160	1,300	<0.5	<0.5	<0.5	<0.5	0.8	<0.5
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	18700	82200	94800	71400	16000	77000
Chromium	21	4100	690	230	270	15.5	9.4	11.6	7.7	25.3	12.8
Cobalt	20	12000	---	4,700	---	8.3	4.7	5.6	3.2	14.7	12
Copper	2,900	8,200	---	2,900	---	18.5	10.2	14.3	8.6	27.2	22.4
Iron	15,000 / 15,900	---	---	---	---	18600	12500	12200	7830	29600	17800
Lead	107	700	---	400	---	13.2	6.1	6	3.6	22.2	11.2
Magnesium	325,000	730,000	---	325,000	---	11400	39900	42600	34900	12200	42200
Manganese	630 / 636	4100	8,700	1,600	---	534	406	339	214	562	368
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	20.5	12.9	14.5	8.9	31.6	23.7
Potassium	---	---	---	---	---	1160	839	1300	804	1510	1460
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	2290	430	932	358	2020	445
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	27.2	15.9	18.8	13.1	44	16.5
Zinc	5,100	61,000	---	23,000	---	43.7	26	32.2	15.4	62.6	58.4
TCLP Metals, mg/L		Class I Groundwater ^{d/}									
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Iron			5			0.2	0.4	0.1	<0.1	<0.1	0.3
Lead			0.0075			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese			0.15			10.9	4	1.4	1.5	1.1	1
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium			0.05			0.01	<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SPLP Metals, mg/L		Class I Groundwater ^{d/}									
Arsenic			0.05			0.02	<0.010	<0.010	<0.010	0.013	0.016
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			0.054	<0.005	0.023	0.007	0.053	0.054
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			0.06	<0.005	0.028	0.007	0.063	0.07
Iron			5			61.6	3.9	22.4	4.2	53.3	62.1
Lead			0.0075			0.027	<0.005	0.009	<0.005	0.026	0.027
Manganese			0.15			0.5	<0.1	0.2	<0.1	0.3	0.3
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			0.1	<0.1	<0.1	<0.1	0.1	0.2

--- - Refers to not applicable or value not available

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

Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table.

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

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

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

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

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

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 26 of 34)
MSA INCLUDING CHICAGO - EXCEEDANCE TABLE
IDOT, District One
IL 47/IL 176 at Pleasant Valley Road
Lakewood, McHenry County, Illinois
BDE Sequence No.: 18785B
PTB: 199-014/HH-2, Work Order No.: 5

Boring ID Sample Depth, ft Sample Date Excavation Area(s) [ISGS Site No.(s)]	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3919-COV-49-08	3919-COV-49-08	3919-COV-50-01	3919-COV-50-01	3919-COV-51-02	3919-COV-51-02
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(0-5)	(5-10)	(0-5)	(5-8.5)	(0-5)	(5-10)
						4/11/2022	4/11/2022	4/12/2022	4/12/2022	4/7/2022	4/7/2022
						3919-COV-49	3919-COV-49	3919-COV-50	3919-COV-50	3919-COV-51	3919-COV-51
Parameter											
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8	7.9	8.57	8.72	8.34	8.92
PID Readings (ppm)						0.0	0.0	0.0	0.0	0.0	0.0
VOCs, mg/kg											
NO EXCEEDANCES											
Acetone	25	---	100,000	70,000	100,000	0.203	<0.2	<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	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<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	<0.005	<0.005
SVOCs, mg/kg											
NO EXCEEDANCES											
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	---	0.09	---	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<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	<0.33	<0.33
Total Metals, mg/kg											
Antimony	5	82	---	31	---	1	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	5	2.4	6.2	3.5	7.4	3.9
Barium	1,500	14,000	870,000	5,500	690,000	62.4	132	36	27.6	85.1	29.6
Beryllium	22	410	44,000	160	1,300	0.6	0.9	<0.5	<0.5	0.8	<0.5
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	37800	7890	61200	113000	3620	81400
Chromium	21	4100	690	230	270	17	23.1	15.1	12	30	16.6
Cobalt	20	12000	---	4,700	---	8.7	10.3	9.9	5.6	12.9	5.8
Copper	2,900	8,200	---	2,900	---	20.7	31.7	20.4	13.4	31	13.4
Iron	15,000 / 15,900	---	---	---	---	17300	18000	17600	12500	32600	16700
Lead	107	700	---	400	---	28.8	13.8	10.1	10.9	17.3	6.3
Magnesium	325,000	730,000	---	325,000	---	21300	6720	37200	33800	7080	42600
Manganese	630 / 636	4100	8,700	1,600	---	417	105	383	255	670	307
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	20	30.7	25.9	14.4	39.5	18.5
Potassium	---	---	---	---	---	1310	829	1590	1240	2450	2560
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	792	1880	1580	628	170	313
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	26.8	35.8	19.8	13.9	38.9	19.4
Zinc	5,100	61,000	---	23,000	---	51.5	65.5	45.5	40.7	63.6	39.2
TCLP Metals, mg/L											
Class I Groundwater ^{d/}											
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Iron			5			0.3	<0.1	0.2	<0.1	<0.1	0.1
Lead			0.0075			0.008	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese			0.15			6.9	0.5	0.7	0.3	0.3	0.7
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SPLP Metals, mg/L											
Class I Groundwater ^{d/}											
Arsenic			0.05			<0.010	0.028	0.035	<0.010	<0.010	0.014
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			0.008	0.053	0.123	0.006	0.011	0.041
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			0.008	0.064	0.129	<0.005	0.008	0.033
Iron			5			5.4	64.6	130	5.2	9.1	43.8
Lead			0.0075			<0.005	0.038	0.051	<0.005	<0.005	0.011
Manganese			0.15			<0.1	0.2	0.8	<0.1	<0.1	0.2
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	0.1	0.3	<0.1	<0.1	0.1

--- - Refers to not applicable or value not available

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

Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table.

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

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

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

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

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

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 27 of 34)
MSA INCLUDING CHICAGO - EXCEEDANCE TABLE
IDOT, District One
IL 47/IL 176 at Pleasant Valley Road
Lakewood, McHenry County, Illinois
BDE Sequence No.: 18785B
PTB: 199-014/HH-2, Work Order No.: 5

Boring ID Sample Depth, ft Sample Date Excavation Area(s) [ISGS Site No.(s)]	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3919-COV-51-02	3919-COV-51-08	3919-COV-52-01	3919-COV-52-01	3919-COV-52-03	3919-COV-52-03
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(10-15)	(0-4)	(0-5)	(5-10)	(0-4)	(4-8)
						4/7/2022	4/14/2022	4/12/2022	4/12/2022	4/12/2022	4/12/2022
						3919-COV-51	3919-COV-51	3919-COV-52	3919-COV-52	3919-COV-52	3919-COV-52
Parameter											
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.08	8.65	8.04	7.78	8.31	8.99
PID Readings (ppm)						0.0	0.0	0.0	0.0	0.0	0.0
VOCs, mg/kg											
NO EXCEEDANCES											
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<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	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<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	<0.005	<0.005
SVOCs, mg/kg											
NO EXCEEDANCES											
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	---	0.09	---	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<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	<0.33	<0.33
Total Metals, mg/kg											
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	3.9	4.1	3.9	2.8	5.7	2.7
Barium	1,500	14,000	870,000	5,500	690,000	30.5	37	57.6	101	59.1	25.9
Beryllium	22	410	44,000	160	1,300	0.5	<0.5	0.5	0.8	0.6	<0.5
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	95500	54200	17500	10300	57500	74700
Chromium	21	4100	690	230	270	19.1	13.5	16.1	21.8	17.4	10.4
Cobalt	20	12000	---	4,700	---	10	7.1	10.1	9.8	7.2	4.8
Copper	2,900	8,200	---	2,900	---	23	16.1	15.4	22.2	20.2	12.6
Iron	15,000 / 15,900	---	---	---	---	19900	14800	16000	19300	19300	11400
Lead	107	700	---	400	---	10	8.2	33.2	15.6	11.4	5.3
Magnesium	325,000	730,000	---	325,000	---	49600	26700	10200	6230	26200	35700
Manganese	630 / 636	4100	8,700	1,600	---	450	287	525	263	353	305
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	26.6	15.4	17.7	24.3	25.2	13.3
Potassium	---	---	---	---	---	3120	1200	1150	1690	1400	1260
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	220	1750	945	762	1160	964
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	23.4	22.2	22.9	30.9	25.8	16.6
Zinc	5,100	61,000	---	23,000	---	43.4	34.7	50.2	65.8	44.7	30
TCLP Metals, mg/L											
Class I Groundwater ^{d/}											
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	<0.005	0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Iron			5			<0.1	<0.1	2.6	<0.1	0.2	4.3
Lead			0.0075			<0.005	<0.005	0.012	<0.005	<0.005	<0.005
Manganese			0.15			1.9	10.2	13	2.7	6	1.1
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	0.1	<0.1	<0.1	<0.1
SPLP Metals, mg/L											
Class I Groundwater ^{d/}											
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	0.025	0.021	<0.005	0.01	0.029
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.005	0.025	0.022	0.005	0.01	0.037
Iron			5			2.2	24	17.5	3.3	9.8	29.8
Lead			0.0075			<0.005	0.012	0.015	<0.005	<0.005	0.009
Manganese			0.15			<0.1	0.2	0.2	<0.1	<0.1	0.3
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

--- - Refers to not applicable or value not available

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

Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table.

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

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

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

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

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

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 28 of 34)
MSA INCLUDING CHICAGO - EXCEEDANCE TABLE
IDOT, District One
IL 47/IL 176 at Pleasant Valley Road
Lakewood, McHenry County, Illinois
BDE Sequence No.: 18785B
PTB: 199-014/HH-2, Work Order No.: 5

Boring ID Sample Depth, ft Sample Date Excavation Area(s) [ISGS Site No.(s)]	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3919-COV-52-06	3919-COV-52-06	Dup-28 (3919-COV-52-06)	3919-COV-52-07	3919-COV-52-07	3919-COV-52-11	
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(0-4)	(4-8)	(4-8)	(0-4)	(4-8)	(0-4)	
						4/12/2022	4/12/2022	4/12/2022	4/12/2022	4/12/2022	4/14/2022	
Parameter						3919-COV-52	3919-COV-52	3919-COV-52	3919-COV-52	3919-COV-52	3919-COV-52	
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.99	8.92	8.95	8.93	8.97	8.28	
PID Readings (ppm)						0.0	0.0	0.0	0.0	0.0	0.0	
VOCs, mg/kg		NO EXCEEDANCES										
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<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	<0.005	<0.005	
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<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	<0.005	<0.005	
SVOCs, mg/kg		NO EXCEEDANCES										
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	---	0.09	---	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<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	<0.33	<0.33	
Total Metals, mg/kg												
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Arsenic	11.3 / 13	61	25,000	---	750	4.2	2.8	3.8	4.3	1.1	3.2	
Barium	1,500	14,000	870,000	5,500	690,000	28.4	28.5	28.5	47.1	14.6	39.8	
Beryllium	22	410	44,000	160	1,300	<0.5	<0.5	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	<0.5	<0.5	
Calcium	---	---	---	---	---	77400	83900	78900	34300	48800	50700	
Chromium	21	4100	690	230	270	11.3	11.7	12.9	17.1	5.7	15.7	
Cobalt	20	12000	---	4,700	---	4.8	6	7.1	6.6	3.7	7.7	
Copper	2,900	8,200	---	2,900	---	16.5	13.8	16.5	17.5	6.6	17.8	
Iron	15,000 / 15,900	---	---	---	---	13600	11800	14200	15400	7500	16200	
Lead	107	700	---	400	---	6.4	5.6	7.3	11.5	2.9	9.9	
Magnesium	325,000	730,000	---	325,000	---	36100	38500	39400	18900	23000	25600	
Manganese	630 / 636	4100	8,700	1,600	---	264	339	328	415	175	294	
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Nickel	100	4100	440,000	1,600	13,000	13.3	15.5	17.5	18.7	7.2	20.6	
Potassium	---	---	---	---	---	1220	1500	1850	1310	507	1510	
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
Sodium	---	---	---	---	---	542	397	372	895	208	1330	
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Vanadium	550	1400	---	550	---	20.1	17.6	18.1	23.8	18.1	21.3	
Zinc	5,100	61,000	---	23,000	---	28.6	27.7	33.1	38.7	14.4	37.4	
TCLP Metals, mg/L		Class I Groundwater ^{d/}										
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Copper			0.65			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Iron			5			3.5	<0.1	0.3	<0.1	<0.1	<0.1	
Lead			0.0075			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Manganese			0.15			1.4	3.8	1.4	1.6	0.8	7.9	
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Zinc			5			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
SPLP Metals, mg/L		Class I Groundwater ^{d/}										
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	0.076	
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	0.007	
Chromium			0.1			0.019	0.01	0.032	0.035	0.014	0.104	
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Copper			0.65			0.02	0.01	0.039	0.032	0.019	0.115	
Iron			5			19.2	7.7	29.6	35.2	15.5	106	
Lead			0.0075			0.017	<0.005	0.011	0.015	<0.005	0.056	
Manganese			0.15			0.2	<0.1	0.2	0.2	0.1	0.8	
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	0.1	
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Zinc			5			<0.1	<0.1	<0.1	<0.1	<0.1	0.2	

--- - Refers to not applicable or value not available

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

Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table.

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

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

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

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

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

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 29 of 34)
MSA INCLUDING CHICAGO - EXCEEDANCE TABLE
IDOT, District One
IL 47/IL 176 at Pleasant Valley Road
Lakewood, McHenry County, Illinois
BDE Sequence No.: 18785B
PTB: 199-014/HH-2, Work Order No.: 5

Boring ID Sample Depth, ft Sample Date Excavation Area(s) [ISGS Site No.(s)]	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3919-COV-52-11	3919-COV-52-12	3919-COV-52-12	3919-COV-53-01	3919-COV-53-01	3919-COV-53-01	
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(4-8)	(0-4)	(4-8)	(0-5)	(5-10)	(10-15.5)	
						4/14/2022	4/14/2022	4/14/2022	4/12/2022	4/12/2022	4/12/2022	
						3919-COV-52	3919-COV-52	3919-COV-52	3919-COV-53	3919-COV-53	3919-COV-53	
Parameter												
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	7.95	7.74	7.51	8.9	8.36	7.92	
PID Readings (ppm)						0.0	0.0	0.0	0.0	0.0	0.0	
VOCs, mg/kg		NO EXCEEDANCES										
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<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	<0.005	<0.005	
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<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	<0.005	<0.005	
SVOCs, mg/kg		NO EXCEEDANCES										
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	---	0.09	---	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<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	<0.33	<0.33	
Total Metals, mg/kg												
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Arsenic	11.3 / 13	61	25,000	---	750	3.3	8.9	2	4.9	<1.0	1.1	
Barium	1,500	14,000	870,000	5,500	690,000	91.4	74.5	60.1	35	27.4	21.4	
Beryllium	22	410	44,000	160	1,300	0.6	0.9	0.6	<0.5	<0.5	<0.5	
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Calcium	---	---	---	---	---	4140	2160	13400	59600	91800	83600	
Chromium	21	4100	690	230	270	16.2	29.2	16.5	13.2	10.4	8.3	
Cobalt	20	12000	---	4,700	---	8	11.3	6.3	7.8	4.8	3.7	
Copper	2,900	8,200	---	2,900	---	14.1	28.9	15.9	18.6	11.9	10.8	
Iron	15,000 / 15,900	---	---	---	---	16100	33500	13000	17500	11100	9260	
Lead	107	700	---	400	---	14.1	12.9	9.8	11.6	5.1	3.6	
Magnesium	325,000	730,000	---	325,000	---	3020	4650	8340	30200	41300	39400	
Manganese	630 / 636	4100	8,700	1,600	---	103	257	189	465	272	237	
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Nickel	100	4100	440,000	1,600	13,000	13.7	28.5	18.3	17.8	12.4	9.7	
Potassium	---	---	---	---	---	1060	1550	784	1230	1330	1100	
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
Sodium	---	---	---	---	---	1010	1410	349	665	179	139	
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Vanadium	550	1400	---	550	---	29.2	45.5	26.9	19.8	15.3	12.7	
Zinc	5,100	61,000	---	23,000	---	42.7	54.7	33.7	35.8	23.5	39.7	
TCLP Metals, mg/L		Class I Groundwater ^{d/}										
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Copper			0.65			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Iron			5			0.1	2.8	<0.1	<0.1	<0.1	<0.1	
Lead			0.0075			<0.005	0.005	<0.005	<0.005	<0.005	<0.005	
Manganese			0.15			1.4	3.4	0.6	3.7	1.7	1.3	
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Zinc			5			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
SPLP Metals, mg/L		Class I Groundwater ^{d/}										
Arsenic			0.05			0.014	0.067	<0.010	<0.010	<0.010	<0.010	
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	
Cadmium			0.005			<0.005	0.006	<0.005	<0.005	<0.005	<0.005	
Chromium			0.1			0.021	0.094	0.011	0.024	<0.005	<0.005	
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Copper			0.65			0.018	0.094	0.01	0.028	<0.005	<0.005	
Iron			5			16.3	102	5.4	22.8	0.7	<0.1	
Lead			0.0075			0.009	0.045	<0.005	0.03	<0.005	<0.005	
Manganese			0.15			<0.1	0.7	<0.1	0.2	<0.1	<0.1	
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Zinc			5			<0.1	0.2	<0.1	<0.1	<0.1	<0.1	

--- - Refers to not applicable or value not available

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

Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table.

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

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

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

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

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

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 30 of 34)
MSA INCLUDING CHICAGO - EXCEEDANCE TABLE
IDOT, District One
IL 47/IL 176 at Pleasant Valley Road
Lakewood, McHenry County, Illinois
BDE Sequence No.: 18785B
PTB: 199-014/HH-2, Work Order No.: 5

Boring ID Sample Depth, ft Sample Date Excavation Area(s) [ISGS Site No.(s)]	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3919-COV-54-02	3919-COV-54-02	3919-COV-56-06	3919-COV-57-01	3919-COV-57-02	3919-COV-57-03
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(0-3)	(3-6.5)	(0-3)	(0-4.5)	(0-4.5)	(0-4.5)
						4/12/2022	4/12/2022	4/14/2022	4/14/2022	4/14/2022	4/14/2022
						3919-COV-54	3919-COV-54	3919-COV-56	3919-COV-57	3919-COV-57	3919-COV-57
Parameter											
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.92	8.39	8.18	8.2	8.51	8.89
PID Readings (ppm)						0.0	0.0	0.0	0.0	0.0	0.0
VOCs, mg/kg											
NO EXCEEDANCES											
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<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	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<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	<0.005	<0.005
SVOCs, mg/kg											
NO EXCEEDANCES											
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	---	0.09	---	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<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	<0.33	<0.33
Total Metals, mg/kg											
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	2	8.1	7.5	4	5	4.6
Barium	1,500	14,000	870,000	5,500	690,000	45.6	33.5	98.3	59.2	55.6	38.7
Beryllium	22	410	44,000	160	1,300	<0.5	<0.5	0.8	0.6	0.6	0.5
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	0.5	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	104000	86800	21600	1490	58500	68700
Chromium	21	4100	690	230	270	15.8	15	29.3	19.1	20.4	17.2
Cobalt	20	12000	---	4,700	---	5.7	10.3	13.2	10.9	8.9	7.8
Copper	2,900	8,200	---	2,900	---	17.8	23	29.1	15.5	26.3	17.1
Iron	15,000 / 15,900	---	---	---	---	15500	19400	29800	19400	21500	18800
Lead	107	700	---	400	---	16.1	12	16.9	10.8	23.5	9.1
Magnesium	325,000	730,000	---	325,000	---	36100	46200	17100	2880	34900	39400
Manganese	630 / 636	4100	8,700	1,600	---	322	594	618	453	321	355
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	16.8	27.1	37.5	19	25.6	21.9
Potassium	---	---	---	---	---	1620	1810	2380	1200	1930	1830
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	2060	964	1780	1080	1790	990
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	21.8	19.8	39.8	29.8	28.7	23.5
Zinc	5,100	61,000	---	23,000	---	38.3	51	56.8	40	54.8	37
TCLP Metals, mg/L											
Class I Groundwater ^{d/}											
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Iron			5			<0.1	<0.1	0.2	<0.1	0.2	1
Lead			0.0075			<0.005	<0.005	0.007	<0.005	<0.005	<0.005
Manganese			0.15			0.8	2.7	6.2	3.4	1.1	0.4
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SPLP Metals, mg/L											
Class I Groundwater ^{d/}											
Arsenic			0.05			<0.010	0.046	0.014	0.054	0.063	0.042
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	0.008	0.01	0.007
Cadmium			0.005			<0.005	<0.005	<0.005	0.018	<0.005	<0.005
Chromium			0.1			0.072	0.079	0.107	0.265	0.303	0.207
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			0.061	0.113	0.078	0.22	0.275	0.158
Iron			5			63.2	103	93.2	247	292	187
Lead			0.0075			0.044	0.048	0.029	0.102	0.166	0.054
Manganese			0.15			0.6	0.6	1.1	2	1.7	0.7
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	0.1	0.1	0.2	0.3	0.2
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			0.3	0.3	0.2	0.5	0.7	0.4

--- - Refers to not applicable or value not available

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

Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table.

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

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

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

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

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

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 31 of 34)
MSA INCLUDING CHICAGO - EXCEEDANCE TABLE
IDOT, District One
IL 47/IL 176 at Pleasant Valley Road
Lakewood, McHenry County, Illinois
BDE Sequence No.: 18785B
PTB: 199-014/HH-2, Work Order No.: 5

Boring ID Sample Depth, ft Sample Date Excavation Area(s) [ISGS Site No.(s)]	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3919-COV-57-04	3919-COV-57-05	Dup-32 (3919-COV-57-05)	3919-COV-58-01	3919-COV-58-01	3919-COV-58-01	3919-COV-58-01	
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(0-4.5)	(0-4.5)	(0-4.5)	(0-5)	(5-10)	(10-15)	(15-20)	
						4/14/2022	4/14/2022	4/14/2022	4/14/2022	4/14/2022	4/14/2022	4/14/2022	
						3919-COV-57	3919-COV-57	3919-COV-57	3919-COV-52	3919-COV-52	3919-COV-52	3919-COV-52	
Parameter													
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	7.76	8.24	8.75	8.78	8.13	8.55	8.23	
PID Readings (ppm)						0.0	0.0	0.0	0.0	0.0	0.0	0.0	
VOCs, mg/kg		NO EXCEEDANCES											
Acetone	25	---	100,000	70,000	100,000	<0.2	0.208	<0.2	<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	<0.005	<0.005	<0.005	
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<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	<0.005	<0.005	<0.005	
SVOCs, mg/kg		NO EXCEEDANCES											
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	---	0.09	---	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<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	<0.33	<0.33	<0.33	
Total Metals, mg/kg													
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Arsenic	11.3 / 13	61	25,000	---	750	5.8	5.4	6.9	8.6	3.3	1.6	2.4	
Barium	1,500	14,000	870,000	5,500	690,000	103	68.8	46.3	65.7	76.7	26	38.2	
Beryllium	22	410	44,000	160	1,300	0.8	0.6	0.6	0.7	<0.5	<0.5	<0.5	
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	
Calcium	---	---	---	---	---	2820	11300	47200	20400	5320	91900	99200	
Chromium	21	4100	690	230	270	22.3	18.8	17.4	23.5	13.4	10.4	14.4	
Cobalt	20	12000	---	4,700	---	10.5	9.6	9.8	12.2	8.9	4.6	6.5	
Copper	2,900	8,200	---	2,900	---	17.8	20.5	20.8	29.9	24.6	12.8	17.2	
Iron	15,000 / 15,900	---	---	---	---	23300	20100	20000	28000	12900	9970	14100	
Lead	107	700	---	400	---	14.4	14.2	12.4	14.1	13.1	4.9	6.1	
Magnesium	325,000	730,000	---	325,000	---	3810	8040	31500	14800	2910	46200	47800	
Manganese	630 / 636	4100	8,700	1,600	---	245	458	514	474	343	256	321	
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	0.07	<0.05	<0.05	
Nickel	100	4100	440,000	1,600	13,000	21.7	18.6	24.4	32.7	13.3	11.5	16.6	
Potassium	---	---	---	---	---	1460	1240	1430	1890	1050	1410	2030	
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
Sodium	---	---	---	---	---	890	1630	1910	2480	1200	192	185	
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Vanadium	550	1400	---	550	---	36.2	31.8	27.6	34.4	24.8	16.3	20.1	
Zinc	5,100	61,000	---	23,000	---	46	52.9	41.9	57.4	52.2	23.8	30.5	
TCLP Metals, mg/L		Class I Groundwater ^{d/}											
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Copper			0.65			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Iron			5			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Lead			0.0075			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Manganese			0.15			4.6	4.6	0.3	10.8	8.3	2.3	2.2	
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	0.015	0.01	0.011	
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Zinc			5			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
SPLP Metals, mg/L		Class I Groundwater ^{d/}											
Arsenic			0.05			0.023	0.048	0.012	0.069	0.021	<0.010	<0.010	
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Beryllium			0.004			0.006	0.006	<0.004	0.007	<0.004	<0.004	<0.004	
Cadmium			0.005			<0.005	<0.005	<0.005	0.018	0.006	<0.005	<0.005	
Chromium			0.1			0.178	0.184	0.054	0.232	0.088	0.007	<0.005	
Cobalt			1			<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	
Copper			0.65			0.112	0.146	0.042	0.273	0.08	<0.005	<0.005	
Iron			5			148	185	48.9	244	79	4.8	0.3	
Lead			0.0075			0.05	0.09	0.019	0.113	0.054	<0.005	<0.005	
Manganese			0.15			1.6	3.4	0.4	2.6	0.9	<0.1	<0.1	
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Nickel			0.1			0.2	0.2	<0.1	0.3	<0.1	<0.1	<0.1	
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Zinc			5			0.3	0.5	0.1	0.6	0.2	<0.1	<0.1	

--- - Refers to not applicable or value not available

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

Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table.

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

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

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

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

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

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 32 of 34)
MSA INCLUDING CHICAGO - EXCEEDANCE TABLE
IDOT, District One
IL 47/IL 176 at Pleasant Valley Road
Lakewood, McHenry County, Illinois
BDE Sequence No.: 18785B
PTB: 199-014/HH-2, Work Order No.: 5

Boring ID Sample Depth, ft Sample Date Excavation Area(s) [ISGS Site No.(s)]	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3919-COV-58-01	Dup-31 (3919-COV-58-01)	3919-COV-59-01	3919-COV-59-01	3919-COV-59-01	3919-COV-59-02	Dup-25 (3919-COV-59-02)
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(20-25)	(20-25)	(0-5)	(5-10)	(10-12)	(0-5)	(0-5)
						4/14/2022	4/14/2022	4/12/2022	4/12/2022	4/12/2022	4/12/2022	4/12/2022
Parameter												
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.11	8.46	8.38	8.83	8.62	8.95	8.44
PID Readings (ppm)						0.0	0.0	0.0	0.0	0.0	0.0	0.0
VOCs, mg/kg		NO EXCEEDANCES										
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<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	<0.005	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<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	<0.005	<0.005	<0.005
SVOCS, mg/kg		NO EXCEEDANCES										
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	---	0.09	---	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<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	<0.33	<0.33	<0.33
Total Metals, mg/kg												
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	7.5	2.8	6.9	6.5	8	9.8	3.1
Barium	1,500	14,000	870,000	5,500	690,000	28	31.4	67.4	21.5	19.9	31.4	28.2
Beryllium	22	410	44,000	160	1,300	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	71800	79200	1900	80800	75200	76200	82600
Chromium	21	4100	690	230	270	16	12.2	28.5	14.7	11.6	15.3	14.8
Cobalt	20	12000	---	4,700	---	10.9	6	10	9.6	6.5	14	7.8
Copper	2,900	8,200	---	2,900	---	22	14.2	17.5	22.6	21.7	30.5	18.2
Iron	15,000 / 15,900	---	---	---	---	24200	12100	28800	18100	16300	27300	15700
Lead	107	700	---	400	---	10.5	5.4	13	11.7	12.1	15.4	8.6
Magnesium	325,000	730,000	---	325,000	---	34300	38100	3660	44300	41400	43400	45000
Manganese	630 / 636	4100	8,700	1,600	---	369	284	383	416	285	511	338
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	26.4	14.9	21.5	24.3	18.1	30.3	20.2
Potassium	---	---	---	---	---	2070	1660	1230	1740	1410	1790	2010
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	322	148	2080	1340	222	197	187
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	23.2	17.5	59.6	19	16.6	24.5	17.3
Zinc	5,100	61,000	---	23,000	---	41	27.9	45.3	45.8	49.4	63.4	40.3
TCLP Metals, mg/L		Class I Groundwater ^{d/}										
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Iron			5			<0.1	<0.1	<0.1	0.5	<0.1	<0.1	<0.1
Lead			0.0075			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese			0.15			2.8	1.7	0.8	0.7	0.9	1.3	0.8
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium			0.05			0.014	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SPLP Metals, mg/L		Class I Groundwater ^{d/}										
Arsenic			0.05			<0.010	<0.010	0.042	0.023	0.012	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	0.005	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	0.201	0.075	0.034	0.005	0.009
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.005	<0.005	0.138	0.094	0.041	<0.005	0.006
Iron			5			<0.1	0.3	191	79.7	35	4.4	6.5
Lead			0.0075			<0.005	<0.005	0.052	0.033	0.014	<0.005	<0.005
Manganese			0.15			<0.1	<0.1	0.9	0.4	0.1	<0.1	<0.1
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	0.3	0.2	0.1	<0.1	<0.1

--- - Refers to not applicable or value not available

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

Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table.

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

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

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

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

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

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 33 of 34)
MSA INCLUDING CHICAGO - EXCEEDANCE TABLE
IDOT, District One
IL 47/IL 176 at Pleasant Valley Road
Lakewood, McHenry County, Illinois
BDE Sequence No.: 18785B
PTB: 199-014/HH-2, Work Order No.: 5

Boring ID Sample Depth, ft Sample Date Excavation Area(s) [ISGS Site No.(s)]	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3919-COV-59-02	3919-COV-59-02	3919-COV-59-03	3919-COV-59-03	3919-COV-59-03	3919-COV-59-04	3919-COV-59-04
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(5-10)	(10-12)	(0-5)	(5-10)	(10-12)	(0-5)	(5-10)
						4/12/2022	4/12/2022	4/12/2022	4/12/2022	4/12/2022	4/12/2022	4/12/2022
Parameter												
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8	8.56	8.06	8.98	8.91	8.55	8.51
PID Readings (ppm)						0.0	0.0	0.0	0.0	0.0	0.0	0.0
VOCs, mg/kg		NO EXCEEDANCES										
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<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	<0.005	<0.005	<0.005
Carbon disulfide	9	20,000	9	7800	720	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<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	<0.005	<0.005	<0.005
SVOCS, mg/kg		NO EXCEEDANCES										
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	---	0.09	---	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<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	<0.33	<0.33	<0.33
Total Metals, mg/kg												
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	3.4	4.5	4.6	14.9	5.3	5	1.2
Barium	1,500	14,000	870,000	5,500	690,000	86.6	44.7	74.3	14.9	33.7	38.3	29
Beryllium	22	410	44,000	160	1,300	0.7	<0.5	0.6	<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	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	5410	80200	9820	69000	74000	80100	93300
Chromium	21	4100	690	230	270	17.8	17	19.9	6	16.5	16	14.2
Cobalt	20	12000	---	4,700	---	8	9.1	11	3.2	8.5	8	6.3
Copper	2,900	8,200	---	2,900	---	17.7	20.7	18.3	7.5	21	21.8	17.9
Iron	15,000 / 15,900	---	---	---	---	17300	18500	19100	8090	18600	19100	14900
Lead	107	700	---	400	---	12.3	10.3	17.7	3.5	9.5	9.8	7.4
Magnesium	325,000	730,000	---	325,000	---	3650	40400	7220	33600	39200	33700	46000
Manganese	630 / 636	4100	8,700	1,600	---	520	440	576	204	387	312	337
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	18.5	24.4	22.6	8.1	23.3	22.2	17
Potassium	---	---	---	---	---	1170	1940	1380	610	1780	1540	1820
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	807	1970	1210	217	648	592	145
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	27.6	22.4	29.9	10.1	20	20.8	20.6
Zinc	5,100	61,000	---	23,000	---	47.7	44.4	51	21.2	46.2	43.3	34.1
TCLP Metals, mg/L		Class I Groundwater ^{d/}										
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Iron			5			0.5	0.6	2.4	<0.1	<0.1	<0.1	<0.1
Lead			0.0075			<0.005	<0.005	0.013	<0.005	<0.005	<0.005	<0.005
Manganese			0.15			5.8	6.1	48.7	0.8	1.3	0.2	1.6
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium			0.05			0.01	<0.010	0.032	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SPLP Metals, mg/L		Class I Groundwater ^{d/}										
Arsenic			0.05			<0.010	0.034	0.013	0.034	0.034	0.016	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	0.005	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			0.031	0.126	0.056	0.049	0.091	0.063	0.012
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			0.02	0.151	0.05	0.055	0.104	0.064	0.017
Iron			5			25.3	126	57.8	59.6	98.8	63.4	9.3
Lead			0.0075			0.013	0.052	0.03	0.026	0.038	0.026	<0.005
Manganese			0.15			0.2	1.1	0.9	0.2	0.7	0.3	0.1
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	0.2	<0.1	<0.1	0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	0.3	0.1	0.2	0.3	0.2	<0.1

--- - Refers to not applicable or value not available

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

Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table.

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

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

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

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

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

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 34 of 34)
MSA INCLUDING CHICAGO - EXCEEDANCE TABLE
IDOT, District One
IL 47/IL 176 at Pleasant Valley Road
Lakewood, McHenry County, Illinois
BDE Sequence No.: 18785B
PTB: 199-014/HH-2, Work Order No.: 5

Boring ID Sample Depth, ft Sample Date Excavation Area(s) [ISGS Site No.(s)]	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3919-COV-59-04	3919-COV-59-06	3919-COV-59-06	3919-COV-59-06
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(10-12)	(0-5)	(5-10)	(10-12)
						4/12/2022	4/12/2022	4/12/2022	4/12/2022
						3919-COV-59	3919-COV-59	3919-COV-59	3919-COV-59
Parameter									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.08	8.4	8.04	8.97
PID Readings (ppm)						0.0	0.0	0.0	0.0
VOCs, mg/kg		NO EXCEEDANCES							
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
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
SVOCs, mg/kg		NO EXCEEDANCES							
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	---	0.09	---	<0.09	<0.09	<0.09	<0.09
Fluoranthene	3,100	82,000	---	3,100	---	<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
Total Metals, mg/kg									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	1.7	6.1	6.3	5.5
Barium	1,500	14,000	870,000	5,500	690,000	55.2	102	40.7	25.5
Beryllium	22	410	44,000	160	1,300	0.8	0.9	0.7	0.6
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	85900	4420	28800	80000
Chromium	21	4100	690	230	270	21.8	19.8	18.9	15.2
Cobalt	20	12000	---	4,700	---	9.4	13	10.9	9.3
Copper	2,900	8,200	---	2,900	---	22	17.2	23.7	22.4
Iron	15,000 / 15,900	---	---	---	---	19100	22500	21700	18100
Lead	107	700	---	400	---	8.8	17.1	11.3	9.8
Magnesium	325,000	730,000	---	325,000	---	40300	3240	20300	40900
Manganese	630 / 636	4100	8,700	1,600	---	395	939	564	339
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	24.5	21.2	28.2	24.9
Potassium	---	---	---	---	---	2640	1680	1830	2010
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	182	1610	568	442
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	26.5	33.1	29.4	19.1
Zinc	5,100	61,000	---	23,000	---	41	47.2	40.8	43.4
TCLP Metals, mg/L		Class I Groundwater ^{d/}							
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			<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1
Iron			5			<0.1	0.7	0.8	<0.1
Lead			0.0075			<0.005	<0.005	<0.005	<0.005
Manganese			0.15			2	<0.1	0.4	1
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1
SPLP Metals, mg/L		Class I Groundwater ^{d/}							
Arsenic			0.05			<0.010	<0.010	0.017	<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			<0.005	0.049	0.098	0.029
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			0.006	0.028	0.085	0.03
Iron			5			1.9	39.8	82.9	27.9
Lead			0.0075			<0.005	0.01	0.026	0.012
Manganese			0.15			<0.1	0.3	0.8	0.1
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	0.1	0.2	<0.1

--- - Refers to not applicable or value not available

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

Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table.

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

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

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

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

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

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 7-01 (0-2)
Sample No: 22-2117-040

Date Collected: 04/01/22
Time Collected: 13:10
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/05/22				
Total Solids	86.55		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/09/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 7-01 (0-2)
Sample No: 22-2117-040

Date Collected: 04/01/22
Time Collected: 13:10
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/09/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/08/22				
Preparation Date: 04/07/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 7-01 (0-2)
Sample No: 22-2117-040

Date Collected: 04/01/22
Time Collected: 13:10
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/08/22		Preparation Date: 04/07/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 7-01 (0-2)
Sample No: 22-2117-040

Date Collected: 04/01/22
Time Collected: 13:10
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/08/22		Preparation Date: 04/07/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 04/07/22		Preparation Date: 04/06/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.3	1.0	mg/kg	
Barium	36.1	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	0.5	0.5	mg/kg	
Calcium	79,500	50	mg/kg	
Chromium	14.6	0.5	mg/kg	
Cobalt	6.6	0.5	mg/kg	
Copper	20.2	0.5	mg/kg	
Iron	15,500	5.0	mg/kg	
Lead	88.2	0.5	mg/kg	
Magnesium	48,400	50	mg/kg	
Manganese	366	0.5	mg/kg	
Nickel	15.9	0.5	mg/kg	
Potassium	1,200	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,410	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	20.1	1.0	mg/kg	
Zinc	48.6	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 7-01 (0-2)
Sample No: 22-2117-040

Date Collected: 04/01/22
Time Collected: 13:10
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/08/22		Preparation Date: 04/06/22		
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	0.063	0.005	mg/L	
Iron	67.0	0.1	mg/L	
Lead	0.096	0.005	mg/L	
Manganese	0.6	0.1	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/07/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	102.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.4	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	92.7	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	78.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	78	45	112
8270C	2-Fluorophenol (Surr)	%R:	68.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	94	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: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 7-02 (0-2)
Sample No: 22-2117-039

Date Collected: 04/01/22
Time Collected: 13:05
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/05/22				
Total Solids	85.75		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/09/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 7-02 (0-2)
Sample No: 22-2117-039

Date Collected: 04/01/22
Time Collected: 13:05
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/09/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/08/22				
Preparation Date: 04/07/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

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Date Collected: 04/01/22
Time Collected: 13:05
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/08/22		Preparation Date: 04/07/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 7-02 (0-2)
Sample No: 22-2117-039

Date Collected: 04/01/22
Time Collected: 13:05
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/08/22		Preparation Date: 04/07/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/07/22		Preparation Date: 04/06/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.9	1.0	mg/kg	
Barium	56.5	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	0.7	0.5	mg/kg	
Calcium	17,200	50	mg/kg	
Chromium	19.6	0.5	mg/kg	
Cobalt	9.2	0.5	mg/kg	
Copper	19.4	0.5	mg/kg	
Iron	17,900	5.0	mg/kg	
Lead	25.0	0.5	mg/kg	
Magnesium	11,400	50	mg/kg	
Manganese	320	0.5	mg/kg	
Nickel	20.3	0.5	mg/kg	
Potassium	1,290	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	26.4	1.0	mg/kg	
Zinc	48.5	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 7-02 (0-2)
Sample No: 22-2117-039

Date Collected: 04/01/22
Time Collected: 13:05
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/06/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/15/22 10:49				
pH @ 25°C, 1:2	8.23		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/05/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/07/22				
Preparation Method 3010A				
Preparation Date: 04/06/22				
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	0.012	0.005	mg/L	
Manganese	4.8	0.1	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: 04/07/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/05/22				
SPLP Metals Extraction	Complete			
Arsenic	0.017	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 7-02 (0-2)
Sample No: 22-2117-039

Date Collected: 04/01/22
Time Collected: 13:05
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/08/22		Preparation Date: 04/06/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.088	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.083	0.005	mg/L	
Iron	82.6	0.1	mg/L	
Lead	0.057	0.005	mg/L	
Manganese	0.9	0.1	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/07/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	101.4	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	97.8	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	92.6	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	117.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	75	45	112
8270C	2-Fluorophenol (Surr)	%R:	59.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	99	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: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 7-03 (0-2)
Sample No: 22-2117-038

Date Collected: 04/01/22
Time Collected: 13:02
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/05/22				
Total Solids	84.73		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/09/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 7-03 (0-2)
Sample No: 22-2117-038

Date Collected: 04/01/22
Time Collected: 13:02
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/09/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/08/22				
Preparation Date: 04/07/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 7-03 (0-2)
Sample No: 22-2117-038

Date Collected: 04/01/22
Time Collected: 13:02
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/08/22		Preparation Date: 04/07/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 7-03 (0-2)
Sample No: 22-2117-038

Date Collected: 04/01/22
Time Collected: 13:02
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/08/22				Preparation Date: 04/07/22
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/07/22				Preparation Date: 04/06/22
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.1	1.0	mg/kg	
Barium	53.7	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	0.6	0.5	mg/kg	
Calcium	34,500	50	mg/kg	
Chromium	17.3	0.5	mg/kg	
Cobalt	8.7	0.5	mg/kg	
Copper	21.5	0.5	mg/kg	
Iron	19,000	5.0	mg/kg	
Lead	72.5	0.5	mg/kg	
Magnesium	20,100	50	mg/kg	
Manganese	429	0.5	mg/kg	
Nickel	20.1	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	2,300	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	23.4	1.0	mg/kg	
Zinc	54.6	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 7-03 (0-2)
Sample No: 22-2117-038

Date Collected: 04/01/22
Time Collected: 13:02
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/08/22		Preparation Date: 04/06/22		
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	0.102	0.005	mg/L	
Iron	95.8	0.1	mg/L	
Lead	0.171	0.005	mg/L	
Manganese	0.9	0.1	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/07/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	103.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.4	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	92.9	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	111	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	81	45	112
8270C	2-Fluorophenol (Surr)	%R:	58	41	84
8270C	d14-Terphenyl (Surr)	%R:	98	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	84	35	105
8270C	Phenol-d5 (surr)	%R:	76.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 9-01 (0-1)
Sample No: 22-2117-035

Date Collected: 04/01/22
Time Collected: 12:50
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/05/22				
Total Solids	87.92		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/09/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 9-01 (0-1)
Sample No: 22-2117-035

Date Collected: 04/01/22
Time Collected: 12:50
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/09/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/08/22				
Preparation Date: 04/07/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 9-01 (0-1)
Sample No: 22-2117-035

Date Collected: 04/01/22
Time Collected: 12:50
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/08/22		Preparation Date: 04/07/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 9-01 (0-1)
Sample No: 22-2117-035

Date Collected: 04/01/22
Time Collected: 12:50
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/08/22		Preparation Date: 04/07/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 04/07/22		Preparation Date: 04/06/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.9	1.0	mg/kg	
Barium	36.7	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	0.8	0.5	mg/kg	
Calcium	62,100	50	mg/kg	
Chromium	17.0	0.5	mg/kg	
Cobalt	9.5	0.5	mg/kg	
Copper	19.4	0.5	mg/kg	
Iron	19,100	5.0	mg/kg	
Lead	11.6	0.5	mg/kg	
Magnesium	40,100	50	mg/kg	
Manganese	391	0.5	mg/kg	
Nickel	25.1	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	2,490	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	22.8	1.0	mg/kg	
Zinc	41.6	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 9-01 (0-1)
Sample No: 22-2117-035

Date Collected: 04/01/22
Time Collected: 12:50
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/06/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/15/22 10:49				
pH @ 25°C, 1:2	8.77		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/05/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/07/22				
Preparation Method 3010A				
Preparation Date: 04/06/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.9	0.1	mg/L	
Lead	0.011	0.005	mg/L	
Manganese	5.8	0.1	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: 04/07/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/05/22				
SPLP Metals Extraction	Complete			
Arsenic	0.030	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 9-01 (0-1)
Sample No: 22-2117-035

Date Collected: 04/01/22
Time Collected: 12:50
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/08/22		Preparation Date: 04/06/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.118	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.114	0.005	mg/L	
Iron	112	0.1	mg/L	
Lead	0.057	0.005	mg/L	
Manganese	1.0	0.1	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/07/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	100.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	92.3	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	79.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	69	45	112
8270C	2-Fluorophenol (Surr)	%R:	64.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	92	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	74	35	105
8270C	Phenol-d5 (surr)	%R:	73	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/01/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 12:40

Sample ID: 10-01 (0-1)

Date Received: 04/04/22

Sample No: 22-2117-033

Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/05/22				
Total Solids	87.35		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/09/22				
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	8.4	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	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 10-01 (0-1)
Sample No: 22-2117-033

Date Collected: 04/01/22
Time Collected: 12:40
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/09/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/08/22				
Preparation Date: 04/06/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 10-01 (0-1)
Sample No: 22-2117-033

Date Collected: 04/01/22
Time Collected: 12:40
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/08/22		Preparation Date: 04/06/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 10-01 (0-1)
Sample No: 22-2117-033

Date Collected: 04/01/22
Time Collected: 12:40
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/08/22		Preparation Date: 04/06/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
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	48,300	50	mg/kg	
Chromium	18.0	0.5	mg/kg	
Cobalt	7.0	0.5	mg/kg	
Copper	27.2	0.5	mg/kg	
Iron	17,000	5.0	mg/kg	
Lead	62.8	0.5	mg/kg	
Magnesium	26,900	50	mg/kg	
Manganese	347	0.5	mg/kg	
Nickel	16.8	0.5	mg/kg	
Potassium	1,270	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	3,620	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	26.3	1.0	mg/kg	
Zinc	50.8	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 10-01 (0-1)
Sample No: 22-2117-033

Date Collected: 04/01/22
Time Collected: 12:40
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/08/22		Preparation Date: 04/06/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	0.005	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.138	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.116	0.005	mg/L	
Iron	113	0.1	mg/L	
Lead	0.377	0.005	mg/L	
Manganese	1.1	0.1	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/07/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	101.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	97.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	91	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	98	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	66	45	112
8270C	2-Fluorophenol (Surr)	%R:	55	41	84
8270C	d14-Terphenyl (Surr)	%R:	84	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	72	35	105
8270C	Phenol-d5 (surr)	%R:	70.5	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/01/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 12:47

Sample ID: 10-02 (0-1)

Date Received: 04/04/22

Sample No: 22-2117-034

Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/05/22				
Total Solids	86.65		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/09/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 10-02 (0-1)
Sample No: 22-2117-034

Date Collected: 04/01/22
Time Collected: 12:47
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/09/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/08/22				
Preparation Date: 04/07/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 10-02 (0-1)
Sample No: 22-2117-034

Date Collected: 04/01/22
Time Collected: 12:47
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/08/22		Preparation Date: 04/07/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 10-02 (0-1)
Sample No: 22-2117-034

Date Collected: 04/01/22
Time Collected: 12:47
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/08/22		Preparation Date: 04/07/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.0	1.0	mg/kg	
Barium	58.5	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	0.9	0.5	mg/kg	
Calcium	24,000	50	mg/kg	
Chromium	19.5	0.5	mg/kg	
Cobalt	9.5	0.5	mg/kg	
Copper	22.6	0.5	mg/kg	
Iron	21,000	5.0	mg/kg	
Lead	30.2	0.5	mg/kg	
Magnesium	15,600	50	mg/kg	
Manganese	329	0.5	mg/kg	
Nickel	24.6	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	1,970	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	29.0	1.0	mg/kg	
Zinc	48.4	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 10-02 (0-1)
Sample No: 22-2117-034

Date Collected: 04/01/22
Time Collected: 12:47
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/08/22		Preparation Date: 04/06/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	0.006	0.004	mg/L	
Cadmium	0.007	0.005	mg/L	
Chromium	0.168	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.170	0.005	mg/L	
Iron	163	0.1	mg/L	
Lead	0.162	0.005	mg/L	
Manganese	2.7	0.1	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/07/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	102.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	91.1	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	78	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	78	45	112
8270C	2-Fluorophenol (Surr)	%R:	68.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	95	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	76	35	105
8270C	Phenol-d5 (surr)	%R:	77	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 11-02 (0-5)
Sample No: 22-2117-031

Date Collected: 04/01/22
Time Collected: 12:36
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/04/22				
Total Solids	89.09		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/09/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 11-02 (0-5)
Sample No: 22-2117-031

Date Collected: 04/01/22
Time Collected: 12:36
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/09/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/08/22				
Preparation Date: 04/06/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 11-02 (0-5)
Sample No: 22-2117-031

Date Collected: 04/01/22
Time Collected: 12:36
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/08/22		Preparation Date: 04/06/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 11-02 (0-5)
Sample No: 22-2117-031

Date Collected: 04/01/22
Time Collected: 12:36
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/08/22				Preparation Date: 04/06/22
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/06/22				Preparation Date: 04/05/22
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.1	1.0	mg/kg	
Barium	26.6	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	0.7	0.5	mg/kg	
Calcium	68,000	50	mg/kg	
Chromium	12.7	0.5	mg/kg	
Cobalt	9.3	0.5	mg/kg	
Copper	16.4	0.5	mg/kg	
Iron	14,700	5.0	mg/kg	
Lead	8.0	0.5	mg/kg	
Magnesium	34,700	50	mg/kg	
Manganese	394	0.5	mg/kg	
Nickel	22.0	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	472	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	17.7	1.0	mg/kg	
Zinc	33.0	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 11-02 (0-5)
Sample No: 22-2117-031

Date Collected: 04/01/22
Time Collected: 12:36
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/06/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/15/22 8:45				
pH @ 25°C, 1:2	7.97		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/05/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/07/22				
Preparation Method 3010A				
Preparation Date: 04/06/22				
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	3.8	0.1	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: 04/07/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/05/22				
SPLP Metals Extraction	Complete			
Arsenic	0.011	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 11-02 (0-5)
Sample No: 22-2117-031

Date Collected: 04/01/22
Time Collected: 12:36
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/08/22		Preparation Date: 04/06/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.047	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.046	0.005	mg/L	
Iron	43.5	0.1	mg/L	
Lead	0.016	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/07/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	100.2	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	97.2	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	91.6	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	109.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	66	45	112
8270C	2-Fluorophenol (Surr)	%R:	63.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	84	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	80	35	105
8270C	Phenol-d5 (surr)	%R:	81	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/01/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 12:37

Sample ID: 11-02 (5-6.5)

Date Received: 04/04/22

Sample No: 22-2117-032

Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/05/22				
Total Solids	90.35		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/09/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 11-02 (5-6.5)
Sample No: 22-2117-032

Date Collected: 04/01/22
Time Collected: 12:37
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/09/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/08/22				
Preparation Date: 04/06/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 11-02 (5-6.5)
Sample No: 22-2117-032

Date Collected: 04/01/22
Time Collected: 12:37
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/08/22		Preparation Date: 04/06/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 11-02 (5-6.5)
Sample No: 22-2117-032

Date Collected: 04/01/22
Time Collected: 12:37
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/08/22		Preparation Date: 04/06/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.2	1.0	mg/kg	
Barium	53.3	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	0.8	0.5	mg/kg	
Calcium	66,500	50	mg/kg	
Chromium	14.9	0.5	mg/kg	
Cobalt	7.6	0.5	mg/kg	
Copper	20.4	0.5	mg/kg	
Iron	17,400	5.0	mg/kg	
Lead	10.7	0.5	mg/kg	
Magnesium	34,500	50	mg/kg	
Manganese	317	0.5	mg/kg	
Nickel	19.6	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	824	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	21.7	1.0	mg/kg	
Zinc	32.0	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 11-02 (5-6.5)
Sample No: 22-2117-032

Date Collected: 04/01/22
Time Collected: 12:37
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/06/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/15/22 10:49				
pH @ 25°C, 1:2	8.44		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/05/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/07/22				
Preparation Method 3010A				
Preparation Date: 04/06/22				
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	0.1	0.1	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: 04/07/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/05/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 11-02 (5-6.5)
Sample No: 22-2117-032

Date Collected: 04/01/22
Time Collected: 12:37
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/08/22		Preparation Date: 04/06/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.013	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.013	0.005	mg/L	
Iron	9.4	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/07/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	103.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.3	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	91.9	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	124	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	77	45	112
8270C	2-Fluorophenol (Surr)	%R:	74	41	84
8270C	d14-Terphenyl (Surr)	%R:	99	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	91	35	105
8270C	Phenol-d5 (surr)	%R:	94.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-01 (0-5)
Sample No: 22-2117-011

Date Collected: 04/01/22
Time Collected: 10:08
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/04/22				
Total Solids	78.78		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/06/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-01 (0-5)
Sample No: 22-2117-011

Date Collected: 04/01/22
Time Collected: 10:08
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/06/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/06/22				
Preparation Date: 04/05/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-01 (0-5)
Sample No: 22-2117-011

Date Collected: 04/01/22
Time Collected: 10:08
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-01 (0-5)
Sample No: 22-2117-011

Date Collected: 04/01/22
Time Collected: 10:08
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.5	1.0	mg/kg	
Barium	96.2	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	0.7	0.5	mg/kg	
Calcium	3,600	50	mg/kg	
Chromium	19.9	0.5	mg/kg	
Cobalt	9.8	0.5	mg/kg	
Copper	15.3	0.5	mg/kg	
Iron	18,000	5.0	mg/kg	
Lead	12.3	0.5	mg/kg	
Magnesium	3,560	50	mg/kg	
Manganese	216	0.5	mg/kg	
Nickel	17.4	0.5	mg/kg	
Potassium	907	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	2,210	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	34.9	1.0	mg/kg	
Zinc	48.6	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-01 (0-5)
Sample No: 22-2117-011

Date Collected: 04/01/22
Time Collected: 10:08
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/07/22		Preparation Date: 04/05/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.027	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.019	0.005	mg/L	
Iron	21.6	0.1	mg/L	
Lead	0.009	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/05/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result	Low	High	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 88.5	86	117	
5035A/8260B	d8-Toluene (Surr)	%R: 99.8	90	110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 114.6	77	120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 77	59	131	
8270C	2-Fluorobiphenyl (Surr)	%R: 72	45	112	
8270C	2-Fluorophenol (Surr)	%R: 66	41	84	
8270C	d14-Terphenyl (Surr)	%R: 91	56	120	
8270C	d5-Nitrobenzene (Surr)	%R: 73	35	105	
8270C	Phenol-d5 (surr)	%R: 78	50	100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-01 (5-10)
Sample No: 22-2117-012

Date Collected: 04/01/22
Time Collected: 10:09
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/04/22				
Total Solids	86.72		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/09/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-01 (5-10)
Sample No: 22-2117-012

Date Collected: 04/01/22
Time Collected: 10:09
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/09/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/06/22				
Preparation Date: 04/05/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/01/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 10:09

Sample ID: 13-01 (5-10)

Date Received: 04/04/22

Sample No: 22-2117-012

Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-01 (5-10)
Sample No: 22-2117-012

Date Collected: 04/01/22
Time Collected: 10:09
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.5	1.0	mg/kg	
Barium	17.2	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	56,000	50	mg/kg	
Chromium	7.5	0.5	mg/kg	
Cobalt	4.6	0.5	mg/kg	
Copper	13.3	0.5	mg/kg	
Iron	7,460	5.0	mg/kg	
Lead	4.8	0.5	mg/kg	
Magnesium	30,100	50	mg/kg	
Manganese	215	0.5	mg/kg	
Nickel	10.5	0.5	mg/kg	
Potassium	728	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	557	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	15.3	1.0	mg/kg	
Zinc	16.9	1.0	mg/kg	



Analytical Report

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Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-01 (5-10)
Sample No: 22-2117-012

Date Collected: 04/01/22
Time Collected: 10:09
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/05/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/14/22 9:30				
pH @ 25°C, 1:2	8.80		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/04/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/06/22				
Preparation Method 3010A				
Preparation Date: 04/05/22				
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	2.1	0.1	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: 04/06/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/04/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-01 (5-10)
Sample No: 22-2117-012

Date Collected: 04/01/22
Time Collected: 10:09
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/07/22		Preparation Date: 04/05/22		
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	1.7	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/07/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	100.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	91.2	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	73.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	73	45	112
8270C	2-Fluorophenol (Surr)	%R:	65.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	91	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	75	35	105
8270C	Phenol-d5 (surr)	%R:	76.5	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/01/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 10:20

Sample ID: 13-02 (0-5)

Date Received: 04/04/22

Sample No: 22-2117-013

Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/04/22				
Total Solids	83.63		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/06/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-02 (0-5)
Sample No: 22-2117-013

Date Collected: 04/01/22
Time Collected: 10:20
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/06/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/06/22				
Preparation Date: 04/05/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-02 (0-5)
Sample No: 22-2117-013

Date Collected: 04/01/22
Time Collected: 10:20
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-02 (0-5)
Sample No: 22-2117-013

Date Collected: 04/01/22
Time Collected: 10:20
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.2	1.0	mg/kg	
Barium	85.6	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	0.5	0.5	mg/kg	
Calcium	11,900	50	mg/kg	
Chromium	15.7	0.5	mg/kg	
Cobalt	6.7	0.5	mg/kg	
Copper	17.6	0.5	mg/kg	
Iron	16,200	5.0	mg/kg	
Lead	11.5	0.5	mg/kg	
Magnesium	6,440	50	mg/kg	
Manganese	280	0.5	mg/kg	
Nickel	15.3	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	2,310	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	25.6	1.0	mg/kg	
Zinc	42.2	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-02 (0-5)
Sample No: 22-2117-013

Date Collected: 04/01/22
Time Collected: 10:20
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/07/22		Preparation Date: 04/05/22		
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	0.015	0.005	mg/L	
Iron	12.3	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/05/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	90.6	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.5	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	118.5	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	67.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	67	45	112
8270C	2-Fluorophenol (Surr)	%R:	58	41	84
8270C	d14-Terphenyl (Surr)	%R:	82	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	66	35	105
8270C	Phenol-d5 (surr)	%R:	68	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-02 (5-10)
Sample No: 22-2117-014

Date Collected: 04/01/22
Time Collected: 10:21
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/04/22				
Total Solids	87.34		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/06/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-02 (5-10)
Sample No: 22-2117-014

Date Collected: 04/01/22
Time Collected: 10:21
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/06/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/06/22				
Preparation Date: 04/05/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-02 (5-10)
Sample No: 22-2117-014

Date Collected: 04/01/22
Time Collected: 10:21
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-02 (5-10)
Sample No: 22-2117-014

Date Collected: 04/01/22
Time Collected: 10:21
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.4	1.0	mg/kg	
Barium	39.5	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	0.8	0.5	mg/kg	
Calcium	75,300	50	mg/kg	
Chromium	16.5	0.5	mg/kg	
Cobalt	9.0	0.5	mg/kg	
Copper	20.8	0.5	mg/kg	
Iron	18,400	5.0	mg/kg	
Lead	9.5	0.5	mg/kg	
Magnesium	38,400	50	mg/kg	
Manganese	364	0.5	mg/kg	
Nickel	23.8	0.5	mg/kg	
Potassium	2,130	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	800	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	22.0	1.0	mg/kg	
Zinc	40.4	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-02 (5-10)
Sample No: 22-2117-014

Date Collected: 04/01/22
Time Collected: 10:21
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/07/22		Preparation Date: 04/05/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.050	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.041	0.005	mg/L	
Iron	46.0	0.1	mg/L	
Lead	0.015	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/05/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	88.8	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.8	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	113.5	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	83.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	80	45	112
8270C	2-Fluorophenol (Surr)	%R:	71	41	84
8270C	d14-Terphenyl (Surr)	%R:	104	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	81	35	105
8270C	Phenol-d5 (surr)	%R:	82.5	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/01/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 12:20

Sample ID: 11-01 (0-5)

Date Received: 04/04/22

Sample No: 22-2117-029

Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/04/22				
Total Solids	86.02		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/06/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 11-01 (0-5)
Sample No: 22-2117-029

Date Collected: 04/01/22
Time Collected: 12:20
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/06/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/08/22				
Preparation Date: 04/06/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 11-01 (0-5)
Sample No: 22-2117-029

Date Collected: 04/01/22
Time Collected: 12:20
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/08/22		Preparation Date: 04/06/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-04 (0-5)
Sample No: 22-2117-016

Date Collected: 04/01/22
Time Collected: 10:31
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/07/22		Preparation Date: 04/06/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.7	1.0	mg/kg	
Barium	117	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	0.8	0.5	mg/kg	
Calcium	7,870	50	mg/kg	
Chromium	19.3	0.5	mg/kg	
Cobalt	10.5	0.5	mg/kg	
Copper	15.5	0.5	mg/kg	
Iron	21,200	5.0	mg/kg	
Lead	17.2	0.5	mg/kg	
Magnesium	4,340	50	mg/kg	
Manganese	1,350	0.5	mg/kg	
Nickel	18.1	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	1,600	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	32.5	1.0	mg/kg	
Zinc	44.1	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-04 (0-5)
Sample No: 22-2117-016

Date Collected: 04/01/22
Time Collected: 10:31
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/07/22		Preparation Date: 04/05/22		
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	0.012	0.005	mg/L	
Iron	9.2	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/07/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	88.7	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.6	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	114.5	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	122	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	76	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	67	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	99	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	86	35 -	105
8270C	Phenol-d5 (surr)	%R:	83	50 -	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/01/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 10:32

Sample ID: 13-04 (5-10)

Date Received: 04/04/22

Sample No: 22-2117-017

Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/04/22				
Total Solids	87.06		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/06/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-04 (5-10)
Sample No: 22-2117-017

Date Collected: 04/01/22
Time Collected: 10:32
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/06/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/08/22				
Preparation Date: 04/06/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-04 (5-10)
Sample No: 22-2117-017

Date Collected: 04/01/22
Time Collected: 10:32
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/08/22		Preparation Date: 04/06/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-04 (5-10)
Sample No: 22-2117-017

Date Collected: 04/01/22
Time Collected: 10:32
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/08/22		Preparation Date: 04/06/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.8	1.0	mg/kg	
Barium	60.3	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	0.7	0.5	mg/kg	
Calcium	81,800	50	mg/kg	
Chromium	15.5	0.5	mg/kg	
Cobalt	9.1	0.5	mg/kg	
Copper	18.4	0.5	mg/kg	
Iron	16,100	5.0	mg/kg	
Lead	8.2	0.5	mg/kg	
Magnesium	41,700	50	mg/kg	
Manganese	484	0.5	mg/kg	
Nickel	24.4	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	871	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	19.7	1.0	mg/kg	
Zinc	36.8	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-04 (5-10)
Sample No: 22-2117-017

Date Collected: 04/01/22
Time Collected: 10:32
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/07/22		Preparation Date: 04/05/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.068	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.071	0.005	mg/L	
Iron	69.4	0.1	mg/L	
Lead	0.024	0.005	mg/L	
Manganese	0.4	0.1	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/07/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	86.4	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	100	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	114.2	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	112.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	73	45	112
8270C	2-Fluorophenol (Surr)	%R:	58.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	98	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	79	35	105
8270C	Phenol-d5 (surr)	%R:	74	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/01/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 10:40

Sample ID: 13-05 (0-5)

Date Received: 04/04/22

Sample No: 22-2117-018

Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/04/22				
Total Solids	83.89		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/06/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-05 (0-5)
Sample No: 22-2117-018

Date Collected: 04/01/22
Time Collected: 10:40
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/06/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/07/22				
Preparation Date: 04/06/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-05 (0-5)
Sample No: 22-2117-018

Date Collected: 04/01/22
Time Collected: 10:40
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/07/22		Preparation Date: 04/06/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-05 (0-5)
Sample No: 22-2117-018

Date Collected: 04/01/22
Time Collected: 10:40
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		
Analysis Date: 04/07/22		Preparation Method 3540C		
		Preparation Date: 04/06/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		
Analysis Date: 04/06/22		Preparation Method 3050B		
		Preparation Date: 04/05/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.9	1.0	mg/kg	
Barium	39.8	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	0.9	0.5	mg/kg	
Calcium	3,200	50	mg/kg	
Chromium	19.5	0.5	mg/kg	
Cobalt	5.5	0.5	mg/kg	
Copper	15.9	0.5	mg/kg	
Iron	18,600	5.0	mg/kg	
Lead	9.7	0.5	mg/kg	
Magnesium	3,680	50	mg/kg	
Manganese	198	0.5	mg/kg	
Nickel	14.9	0.5	mg/kg	
Potassium	968	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,770	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	31.9	1.0	mg/kg	
Zinc	37.2	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-05 (0-5)
Sample No: 22-2117-018

Date Collected: 04/01/22
Time Collected: 10:40
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/05/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/15/22 8:45				
pH @ 25°C, 1:2	8.22		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/04/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/06/22				
Preparation Method 3010A				
Preparation Date: 04/05/22				
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	0.2	0.1	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: 04/06/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/04/22				
SPLP Metals Extraction	Complete			
Arsenic	0.014	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-05 (0-5)
Sample No: 22-2117-018

Date Collected: 04/01/22
Time Collected: 10:40
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/07/22		Preparation Date: 04/05/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.087	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.068	0.005	mg/L	
Iron	77.9	0.1	mg/L	
Lead	0.030	0.005	mg/L	
Manganese	0.4	0.1	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/07/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	88.8	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.2	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	115	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	124	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	81	45	112
8270C	2-Fluorophenol (Surr)	%R:	67	41	84
8270C	d14-Terphenyl (Surr)	%R:	104	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	88	35	105
8270C	Phenol-d5 (surr)	%R:	85.5	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/01/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 10:41

Sample ID: 13-05 (5-10)

Date Received: 04/04/22

Sample No: 22-2117-019

Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/04/22				
Total Solids	90.63		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/09/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-05 (5-10)
Sample No: 22-2117-019

Date Collected: 04/01/22
Time Collected: 10:41
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/09/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/07/22				
Preparation Date: 04/06/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-05 (5-10)
Sample No: 22-2117-019

Date Collected: 04/01/22
Time Collected: 10:41
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/07/22		Preparation Date: 04/06/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-05 (5-10)
Sample No: 22-2117-019

Date Collected: 04/01/22
Time Collected: 10:41
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/07/22		Preparation Date: 04/06/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.1	1.0	mg/kg	
Barium	20.8	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	58,500	50	mg/kg	
Chromium	7.4	0.5	mg/kg	
Cobalt	4.2	0.5	mg/kg	
Copper	10.0	0.5	mg/kg	
Iron	10,200	5.0	mg/kg	
Lead	3.6	0.5	mg/kg	
Magnesium	27,300	50	mg/kg	
Manganese	229	0.5	mg/kg	
Nickel	9.4	0.5	mg/kg	
Potassium	790	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	567	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	20.0	1.0	mg/kg	
Zinc	21.4	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-05 (5-10)
Sample No: 22-2117-019

Date Collected: 04/01/22
Time Collected: 10:41
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/07/22		Preparation Date: 04/05/22		
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	0.026	0.005	mg/L	
Iron	21.0	0.1	mg/L	
Lead	0.007	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/07/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	102	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.5	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	90.1	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	117	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	74	45	112
8270C	2-Fluorophenol (Surr)	%R:	60.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	94	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	80	35	105
8270C	Phenol-d5 (surr)	%R:	78.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-06 (0-5)
Sample No: 22-2117-020

Date Collected: 04/01/22
Time Collected: 10:49
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/04/22				
Total Solids	85.11		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/06/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-06 (0-5)
Sample No: 22-2117-020

Date Collected: 04/01/22
Time Collected: 10:49
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/06/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/07/22				
Preparation Date: 04/06/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-06 (0-5)
Sample No: 22-2117-020

Date Collected: 04/01/22
Time Collected: 10:49
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/07/22		Preparation Date: 04/06/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-06 (0-5)
Sample No: 22-2117-020

Date Collected: 04/01/22
Time Collected: 10:49
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/07/22		Preparation Date: 04/06/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.5	1.0	mg/kg	
Barium	63.8	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	0.8	0.5	mg/kg	
Calcium	31,700	50	mg/kg	
Chromium	15.9	0.5	mg/kg	
Cobalt	8.8	0.5	mg/kg	
Copper	17.6	0.5	mg/kg	
Iron	17,600	5.0	mg/kg	
Lead	11.9	0.5	mg/kg	
Magnesium	16,500	50	mg/kg	
Manganese	354	0.5	mg/kg	
Nickel	18.2	0.5	mg/kg	
Potassium	1,230	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	25.2	1.0	mg/kg	
Zinc	37.3	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-06 (0-5)
Sample No: 22-2117-020

Date Collected: 04/01/22
Time Collected: 10:49
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/05/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/15/22 8:45				
pH @ 25°C, 1:2	8.06		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/04/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/06/22				
Preparation Method 3010A				
Preparation Date: 04/05/22				
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	7.7	0.1	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: 04/06/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/04/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-06 (0-5)
Sample No: 22-2117-020

Date Collected: 04/01/22
Time Collected: 10:49
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/07/22		Preparation Date: 04/05/22		
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	0.038	0.005	mg/L	
Iron	38.7	0.1	mg/L	
Lead	0.016	0.005	mg/L	
Manganese	0.5	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/07/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result	Low	High	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 87.5	86	117	
5035A/8260B	d8-Toluene (Surr)	%R: 101.7	90	110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 113.3	77	120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 121	59	131	
8270C	2-Fluorobiphenyl (Surr)	%R: 67	45	112	
8270C	2-Fluorophenol (Surr)	%R: 61.5	41	84	
8270C	d14-Terphenyl (Surr)	%R: 97	56	120	
8270C	d5-Nitrobenzene (Surr)	%R: 79	35	105	
8270C	Phenol-d5 (surr)	%R: 78	50	100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-06 (5-10)
Sample No: 22-2117-021

Date Collected: 04/01/22
Time Collected: 10:50
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/04/22				
Total Solids	82.77		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/06/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-06 (5-10)
Sample No: 22-2117-021

Date Collected: 04/01/22
Time Collected: 10:50
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/06/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/07/22				
Preparation Date: 04/06/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-06 (5-10)
Sample No: 22-2117-021

Date Collected: 04/01/22
Time Collected: 10:50
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/07/22		Preparation Date: 04/06/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-06 (5-10)
Sample No: 22-2117-021

Date Collected: 04/01/22
Time Collected: 10:50
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/07/22		Preparation Date: 04/06/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.4	1.0	mg/kg	
Barium	32.5	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	0.9	0.5	mg/kg	
Calcium	70,100	50	mg/kg	
Chromium	15.9	0.5	mg/kg	
Cobalt	8.4	0.5	mg/kg	
Copper	24.1	0.5	mg/kg	
Iron	19,300	5.0	mg/kg	
Lead	10.5	0.5	mg/kg	
Magnesium	32,700	50	mg/kg	
Manganese	368	0.5	mg/kg	
Nickel	22.8	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	1,160	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	23.5	1.0	mg/kg	
Zinc	45.7	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-06 (5-10)
Sample No: 22-2117-021

Date Collected: 04/01/22
Time Collected: 10:50
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/06/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/15/22 8:45				
pH @ 25°C, 1:2	8.28		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/04/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/07/22				
Preparation Method 3010A				
Preparation Date: 04/06/22				
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	1.8	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.8	0.1	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: 04/07/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/04/22				
SPLP Metals Extraction	Complete			
Arsenic	0.019	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-06 (5-10)
Sample No: 22-2117-021

Date Collected: 04/01/22
Time Collected: 10:50
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/08/22		Preparation Date: 04/06/22		
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	65.6	0.1	mg/L	
Lead	0.033	0.005	mg/L	
Manganese	0.4	0.1	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/07/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	87.4	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.8	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	113.3	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	118.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	69	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	66.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	95	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	86	35 -	105
8270C	Phenol-d5 (surr)	%R:	84	50 -	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-07 (0-5)
Sample No: 22-2117-025

Date Collected: 04/01/22
Time Collected: 11:18
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/07/22		Preparation Date: 04/06/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.8	1.0	mg/kg	
Barium	66.2	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	1.2	0.5	mg/kg	
Calcium	20,000	50	mg/kg	
Chromium	22.3	0.5	mg/kg	
Cobalt	11.8	0.5	mg/kg	
Copper	24.9	0.5	mg/kg	
Iron	25,600	5.0	mg/kg	
Lead	15.2	0.5	mg/kg	
Magnesium	13,900	50	mg/kg	
Manganese	296	0.5	mg/kg	
Nickel	26.6	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	2,190	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	34.4	1.0	mg/kg	
Zinc	53.8	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-07 (0-5)
Sample No: 22-2117-025

Date Collected: 04/01/22
Time Collected: 11:18
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/08/22		Preparation Date: 04/06/22		
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	0.057	0.005	mg/L	
Iron	53.6	0.1	mg/L	
Lead	0.028	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/07/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	89.2	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.8	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	115.4	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	128	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	82	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	69	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	109	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	86	35 -	105
8270C	Phenol-d5 (surr)	%R:	85.5	50 -	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-07 (5-10)
Sample No: 22-2117-026

Date Collected: 04/01/22
Time Collected: 11:19
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/04/22				
Total Solids	78.32		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/06/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-07 (5-10)
Sample No: 22-2117-026

Date Collected: 04/01/22
Time Collected: 11:19
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/06/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/07/22				
Preparation Date: 04/06/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-07 (5-10)
Sample No: 22-2117-026

Date Collected: 04/01/22
Time Collected: 11:19
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/07/22		Preparation Date: 04/06/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-07 (5-10)
Sample No: 22-2117-026

Date Collected: 04/01/22
Time Collected: 11:19
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/07/22		Preparation Date: 04/06/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	< 1.0	1.0	mg/kg	
Barium	81.5	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	1.0	0.5	mg/kg	
Calcium	8,660	50	mg/kg	
Chromium	21.1	0.5	mg/kg	
Cobalt	4.8	0.5	mg/kg	
Copper	15.3	0.5	mg/kg	
Iron	20,300	5.0	mg/kg	
Lead	10.9	0.5	mg/kg	
Magnesium	7,690	50	mg/kg	
Manganese	120	0.5	mg/kg	
Nickel	16.8	0.5	mg/kg	
Potassium	1,510	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	2,230	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	22.9	1.0	mg/kg	
Zinc	62.2	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-07 (5-10)
Sample No: 22-2117-026

Date Collected: 04/01/22
Time Collected: 11:19
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/06/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/15/22 8:45				
pH @ 25°C, 1:2	8.32		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/05/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/07/22				
Preparation Method 3010A Preparation Date: 04/06/22				
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	0.6	0.1	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: 04/07/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/05/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-07 (5-10)
Sample No: 22-2117-026

Date Collected: 04/01/22
Time Collected: 11:19
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/08/22		Preparation Date: 04/06/22		
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	0.034	0.005	mg/L	
Iron	47.0	0.1	mg/L	
Lead	0.018	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/07/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result	Low	High	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 89	86	117	
5035A/8260B	d8-Toluene (Surr)	%R: 101.1	90	110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 117.9	77	120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 101	59	131	
8270C	2-Fluorobiphenyl (Surr)	%R: 57	45	112	
8270C	2-Fluorophenol (Surr)	%R: 52	41	84	
8270C	d14-Terphenyl (Surr)	%R: 85	56	120	
8270C	d5-Nitrobenzene (Surr)	%R: 67	35	105	
8270C	Phenol-d5 (surr)	%R: 66.5	50	100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-08 (0-5)
Sample No: 22-2117-027

Date Collected: 04/01/22
Time Collected: 11:26
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/04/22				
Total Solids	79.74		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/06/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-08 (0-5)
Sample No: 22-2117-027

Date Collected: 04/01/22
Time Collected: 11:26
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/06/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/07/22				
Preparation Date: 04/06/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-08 (0-5)
Sample No: 22-2117-027

Date Collected: 04/01/22
Time Collected: 11:26
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/07/22		Preparation Date: 04/06/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-08 (0-5)
Sample No: 22-2117-027

Date Collected: 04/01/22
Time Collected: 11:26
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/07/22		Preparation Date: 04/06/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.0	1.0	mg/kg	
Barium	49.7	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	0.9	0.5	mg/kg	
Calcium	27,000	50	mg/kg	
Chromium	19.8	0.5	mg/kg	
Cobalt	8.8	0.5	mg/kg	
Copper	20.4	0.5	mg/kg	
Iron	19,900	5.0	mg/kg	
Lead	11.9	0.5	mg/kg	
Magnesium	17,100	50	mg/kg	
Manganese	407	0.5	mg/kg	
Nickel	25.9	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	1,490	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	24.5	1.0	mg/kg	
Zinc	42.9	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-08 (0-5)
Sample No: 22-2117-027

Date Collected: 04/01/22
Time Collected: 11:26
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/08/22		Preparation Date: 04/06/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	0.007	0.004	mg/L	
Cadmium	0.008	0.005	mg/L	
Chromium	0.199	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.194	0.005	mg/L	
Iron	182	0.1	mg/L	
Lead	0.075	0.005	mg/L	
Manganese	1.7	0.1	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/07/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result	Low	High	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 87.9	86	117	
5035A/8260B	d8-Toluene (Surr)	%R: 100.8	90	110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 115.1	77	120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 121	59	131	
8270C	2-Fluorobiphenyl (Surr)	%R: 74	45	112	
8270C	2-Fluorophenol (Surr)	%R: 63.5	41	84	
8270C	d14-Terphenyl (Surr)	%R: 107	56	120	
8270C	d5-Nitrobenzene (Surr)	%R: 82	35	105	
8270C	Phenol-d5 (surr)	%R: 83.5	50	100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-08 (5-10)
Sample No: 22-2117-028

Date Collected: 04/01/22
Time Collected: 11:27
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/04/22				
Total Solids	85.20		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/06/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-08 (5-10)
Sample No: 22-2117-028

Date Collected: 04/01/22
Time Collected: 11:27
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/06/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/07/22				
Preparation Date: 04/06/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-08 (5-10)
Sample No: 22-2117-028

Date Collected: 04/01/22
Time Collected: 11:27
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/07/22		Preparation Date: 04/06/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-08 (5-10)
Sample No: 22-2117-028

Date Collected: 04/01/22
Time Collected: 11:27
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/07/22		Preparation Date: 04/06/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.5	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	123,000	50	mg/kg	
Chromium	8.7	0.5	mg/kg	
Cobalt	4.2	0.5	mg/kg	
Copper	13.6	0.5	mg/kg	
Iron	16,300	5.0	mg/kg	
Lead	89.8	0.5	mg/kg	
Magnesium	64,300	50	mg/kg	
Manganese	1,330	0.5	mg/kg	
Nickel	10.1	0.5	mg/kg	
Potassium	878	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,410	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	18.3	1.0	mg/kg	
Zinc	47.2	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-08 (5-10)
Sample No: 22-2117-028

Date Collected: 04/01/22
Time Collected: 11:27
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/06/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/15/22 8:45				
pH @ 25°C, 1:2	8.47		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/05/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/07/22				
Preparation Method 3010A				
Preparation Date: 04/06/22				
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	0.264	0.005	mg/L	
Manganese	4.0	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.5	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 04/07/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/05/22				
SPLP Metals Extraction	Complete			
Arsenic	0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-08 (5-10)
Sample No: 22-2117-028

Date Collected: 04/01/22
Time Collected: 11:27
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/08/22		Preparation Date: 04/06/22		
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	0.021	0.005	mg/L	
Iron	6.6	0.1	mg/L	
Lead	0.122	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/07/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	89	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.4	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	115.6	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	113.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	80	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	68	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	111	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	87	35 -	105
8270C	Phenol-d5 (surr)	%R:	82.5	50 -	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 03/29/22

Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08

Time Collected: 10:20

Sample ID: 13-17 (0-5)

Date Received: 03/30/22

Sample No: 22-2001-011

Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 03/30/22				
Total Solids	85.55		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 13-17 (0-5)
Sample No: 22-2001-011

Date Collected: 03/29/22
Time Collected: 10:20
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/31/22				
Preparation Date: 03/30/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 13-17 (0-5)
Sample No: 22-2001-011

Date Collected: 03/29/22
Time Collected: 10:20
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/31/22		Preparation Date: 03/30/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/06/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 10:30

Sample ID: 3919-COV-13-10 (0-5)

Date Received: 04/07/22

Sample No: 22-2256-003

Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/11/22				
Total Solids	80.76		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-10 (0-5)
Sample No: 22-2256-003

Date Collected: 04/06/22
Time Collected: 10:30
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/13/22				
Preparation Date: 04/12/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-10 (0-5)
Sample No: 22-2256-003

Date Collected: 04/06/22
Time Collected: 10:30
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/13/22		Preparation Date: 04/12/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-10 (0-5)
Sample No: 22-2256-003

Date Collected: 04/06/22
Time Collected: 10:30
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/13/22		Preparation Date: 04/12/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/11/22		Preparation Date: 04/08/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	< 1.0	1.0	mg/kg	
Barium	148	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	1.4	0.5	mg/kg	
Calcium	7,670	50	mg/kg	
Chromium	20.8	0.5	mg/kg	
Cobalt	6.5	0.5	mg/kg	
Copper	15.6	0.5	mg/kg	
Iron	16,500	5.0	mg/kg	
Lead	10.3	0.5	mg/kg	
Magnesium	7,730	50	mg/kg	
Manganese	146	0.5	mg/kg	
Nickel	18.1	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	1,080	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	17.6	1.0	mg/kg	
Zinc	51.6	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-10 (0-5)
Sample No: 22-2256-003

Date Collected: 04/06/22
Time Collected: 10:30
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/08/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/18/22 14:10				
pH @ 25°C, 1:2	8.39		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/07/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/12/22				
Preparation Method 3010A				
Preparation Date: 04/11/22				
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	0.7	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.0	0.1	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: 04/08/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/07/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-10 (0-5)
Sample No: 22-2256-003

Date Collected: 04/06/22
Time Collected: 10:30
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/12/22		Preparation Date: 04/11/22		
Barium	1.5	1.0	mg/L	
Beryllium	0.007	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.223	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.167	0.005	mg/L	
Iron	182	0.1	mg/L	
Lead	0.111	0.005	mg/L	
Manganese	1.1	0.1	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/12/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	101	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	91	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	75	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	60	45	112
8270C	2-Fluorophenol (Surr)	%R:	58	41	84
8270C	d14-Terphenyl (Surr)	%R:	86	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	63	35	105
8270C	Phenol-d5 (surr)	%R:	64.5	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/06/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 10:31

Sample ID: 3919-COV-13-10 (5-10)

Date Received: 04/07/22

Sample No: 22-2256-004

Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/11/22				
Total Solids	83.54		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-10 (5-10)
Sample No: 22-2256-004

Date Collected: 04/06/22
Time Collected: 10:31
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/13/22				
Preparation Date: 04/12/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-10 (5-10)
Sample No: 22-2256-004

Date Collected: 04/06/22
Time Collected: 10:31
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/13/22		Preparation Date: 04/12/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-10 (5-10)
Sample No: 22-2256-004

Date Collected: 04/06/22
Time Collected: 10:31
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/13/22		Preparation Date: 04/12/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/11/22		Preparation Date: 04/08/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	< 1.0	1.0	mg/kg	
Barium	32.5	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	1.0	0.5	mg/kg	
Calcium	86,900	50	mg/kg	
Chromium	11.2	0.5	mg/kg	
Cobalt	9.6	0.5	mg/kg	
Copper	15.9	0.5	mg/kg	
Iron	9,630	5.0	mg/kg	
Lead	8.6	0.5	mg/kg	
Magnesium	50,400	50	mg/kg	
Manganese	331	0.5	mg/kg	
Nickel	19.1	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	511	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	17.9	1.0	mg/kg	
Zinc	27.9	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-10 (5-10)
Sample No: 22-2256-004

Date Collected: 04/06/22
Time Collected: 10:31
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/12/22		Preparation Date: 04/11/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.047	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.037	0.005	mg/L	
Iron	29.5	0.1	mg/L	
Lead	0.025	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/12/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	100	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	97	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	95	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	73	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	62	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	52.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	89	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	61	35 -	105
8270C	Phenol-d5 (surr)	%R:	65.5	50 -	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/06/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 10:20

Sample ID: 3919-COV-13-11 (0-5)

Date Received: 04/07/22

Sample No: 22-2256-005

Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/07/22				
Total Solids	78.02		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-11 (0-5)
Sample No: 22-2256-005

Date Collected: 04/06/22
Time Collected: 10:20
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/13/22				
Preparation Date: 04/12/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-11 (0-5)
Sample No: 22-2256-005

Date Collected: 04/06/22
Time Collected: 10:20
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/13/22		Preparation Date: 04/12/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-11 (0-5)
Sample No: 22-2256-005

Date Collected: 04/06/22
Time Collected: 10:20
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/13/22		Preparation Date: 04/12/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/11/22		Preparation Date: 04/08/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.1	1.0	mg/kg	
Barium	127	0.5	mg/kg	
Beryllium	0.9	0.5	mg/kg	
Cadmium	2.0	0.5	mg/kg	
Calcium	5,350	50	mg/kg	
Chromium	23.8	0.5	mg/kg	
Cobalt	10.1	0.5	mg/kg	
Copper	24.2	0.5	mg/kg	
Iron	24,600	5.0	mg/kg	
Lead	11.7	0.5	mg/kg	
Magnesium	6,860	50	mg/kg	
Manganese	527	0.5	mg/kg	
Nickel	27.1	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	1,330	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	31.6	1.0	mg/kg	
Zinc	49.5	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-11 (0-5)
Sample No: 22-2256-005

Date Collected: 04/06/22
Time Collected: 10:20
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/12/22		Preparation Date: 04/11/22		
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	0.036	0.005	mg/L	
Iron	47.8	0.1	mg/L	
Lead	0.016	0.005	mg/L	
Manganese	0.6	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/12/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	100.6	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.2	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	91.6	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	75.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	57	45	112
8270C	2-Fluorophenol (Surr)	%R:	59	41	84
8270C	d14-Terphenyl (Surr)	%R:	90	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	69	35	105
8270C	Phenol-d5 (surr)	%R:	65.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-11 (5-10)
Sample No: 22-2256-006

Date Collected: 04/06/22
Time Collected: 10:21
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/11/22				
Total Solids	89.31		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-11 (5-10)
Sample No: 22-2256-006

Date Collected: 04/06/22
Time Collected: 10:21
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/13/22				
Preparation Date: 04/12/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-11 (5-10)
Sample No: 22-2256-006

Date Collected: 04/06/22
Time Collected: 10:21
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/13/22		Preparation Date: 04/12/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-11 (5-10)
Sample No: 22-2256-006

Date Collected: 04/06/22
Time Collected: 10:21
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/13/22		Preparation Date: 04/12/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/11/22		Preparation Date: 04/08/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.1	1.0	mg/kg	
Barium	28.3	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	0.9	0.5	mg/kg	
Calcium	68,600	50	mg/kg	
Chromium	8.9	0.5	mg/kg	
Cobalt	4.7	0.5	mg/kg	
Copper	11.5	0.5	mg/kg	
Iron	9,600	5.0	mg/kg	
Lead	5.6	0.5	mg/kg	
Magnesium	34,300	50	mg/kg	
Manganese	295	0.5	mg/kg	
Nickel	10.4	0.5	mg/kg	
Potassium	1,120	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	428	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	14.3	1.0	mg/kg	
Zinc	23.5	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-11 (5-10)
Sample No: 22-2256-006

Date Collected: 04/06/22
Time Collected: 10:21
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/12/22		Preparation Date: 04/11/22		
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	0.012	0.005	mg/L	
Iron	8.8	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/12/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	102	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	97	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	80	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	72	45	112
8270C	2-Fluorophenol (Surr)	%R:	68	41	84
8270C	d14-Terphenyl (Surr)	%R:	99	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	78	35	105
8270C	Phenol-d5 (surr)	%R:	74.5	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/06/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 10:10

Sample ID: 3919-COV-13-12 (0-5)

Date Received: 04/07/22

Sample No: 22-2256-007

Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/07/22				
Total Solids	83.22		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-12 (0-5)
Sample No: 22-2256-007

Date Collected: 04/06/22
Time Collected: 10:10
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/13/22				
Preparation Date: 04/12/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-12 (0-5)
Sample No: 22-2256-007

Date Collected: 04/06/22
Time Collected: 10:10
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/13/22		Preparation Date: 04/12/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-12 (0-5)
Sample No: 22-2256-007

Date Collected: 04/06/22
Time Collected: 10:10
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/13/22		Preparation Date: 04/12/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/11/22		Preparation Date: 04/08/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	9.3	1.0	mg/kg	
Barium	71.8	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	2.5	0.5	mg/kg	
Calcium	2,170	50	mg/kg	
Chromium	27.3	0.5	mg/kg	
Cobalt	10.0	0.5	mg/kg	
Copper	31.8	0.5	mg/kg	
Iron	31,200	5.0	mg/kg	
Lead	15.0	0.5	mg/kg	
Magnesium	4,440	50	mg/kg	
Manganese	351	0.5	mg/kg	
Nickel	28.2	0.5	mg/kg	
Potassium	1,460	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	2,560	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	39.0	1.0	mg/kg	
Zinc	54.5	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-12 (0-5)
Sample No: 22-2256-007

Date Collected: 04/06/22
Time Collected: 10:10
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/12/22		Preparation Date: 04/11/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	0.005	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.165	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	0.068	0.005	mg/L	
Manganese	0.8	0.1	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/12/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	102.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	94.1	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	72	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	67	45	112
8270C	2-Fluorophenol (Surr)	%R:	58.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	96	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	73	35	105
8270C	Phenol-d5 (surr)	%R:	68.5	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/06/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 10:11

Sample ID: 3919-COV-13-12 (5-10)

Date Received: 04/07/22

Sample No: 22-2256-008

Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/07/22				
Total Solids	89.96		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-12 (5-10)
Sample No: 22-2256-008

Date Collected: 04/06/22
Time Collected: 10:11
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/13/22				
Preparation Date: 04/12/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-12 (5-10)
Sample No: 22-2256-008

Date Collected: 04/06/22
Time Collected: 10:11
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/13/22		Preparation Date: 04/12/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-12 (5-10)
Sample No: 22-2256-008

Date Collected: 04/06/22
Time Collected: 10:11
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/13/22		Preparation Date: 04/12/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/11/22		Preparation Date: 04/08/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	1.8	1.0	mg/kg	
Barium	26.7	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	1.0	0.5	mg/kg	
Calcium	78,700	50	mg/kg	
Chromium	10.0	0.5	mg/kg	
Cobalt	5.3	0.5	mg/kg	
Copper	12.2	0.5	mg/kg	
Iron	10,500	5.0	mg/kg	
Lead	4.8	0.5	mg/kg	
Magnesium	36,300	50	mg/kg	
Manganese	394	0.5	mg/kg	
Nickel	13.5	0.5	mg/kg	
Potassium	1,230	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	883	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	16.4	1.0	mg/kg	
Zinc	24.4	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-12 (5-10)
Sample No: 22-2256-008

Date Collected: 04/06/22
Time Collected: 10:11
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/12/22		Preparation Date: 04/11/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.040	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.046	0.005	mg/L	
Iron	40.3	0.1	mg/L	
Lead	0.013	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/12/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	103.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	95.8	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	78.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	75	45	112
8270C	2-Fluorophenol (Surr)	%R:	65.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	103	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	79	35	105
8270C	Phenol-d5 (surr)	%R:	74.5	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/06/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 10:05

Sample ID: 3919-COV-13-13 (0-5)

Date Received: 04/07/22

Sample No: 22-2256-009

Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/07/22				
Total Solids	82.91		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-13 (0-5)
Sample No: 22-2256-009

Date Collected: 04/06/22
Time Collected: 10:05
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/13/22				
Preparation Date: 04/12/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-13 (0-5)
Sample No: 22-2256-009

Date Collected: 04/06/22
Time Collected: 10:05
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/13/22		Preparation Date: 04/12/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-13 (0-5)
Sample No: 22-2256-009

Date Collected: 04/06/22
Time Collected: 10:05
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/13/22		Preparation Date: 04/12/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/11/22		Preparation Date: 04/08/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.9	1.0	mg/kg	
Barium	85.5	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	2.0	0.5	mg/kg	
Calcium	82,500	50	mg/kg	
Chromium	20.6	0.5	mg/kg	
Cobalt	7.9	0.5	mg/kg	
Copper	25.0	0.5	mg/kg	
Iron	20,800	5.0	mg/kg	
Lead	11.0	0.5	mg/kg	
Magnesium	41,400	50	mg/kg	
Manganese	379	0.5	mg/kg	
Nickel	23.4	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	1,790	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	27.8	1.0	mg/kg	
Zinc	43.3	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-13 (0-5)
Sample No: 22-2256-009

Date Collected: 04/06/22
Time Collected: 10:05
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/12/22		Preparation Date: 04/11/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.050	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.045	0.005	mg/L	
Iron	47.1	0.1	mg/L	
Lead	0.013	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/12/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	100.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	94.1	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	77	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	64	45	112
8270C	2-Fluorophenol (Surr)	%R:	64.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	95	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	75	35	105
8270C	Phenol-d5 (surr)	%R:	72.5	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/06/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 10:06

Sample ID: 3919-COV-13-13 (5-10)

Date Received: 04/07/22

Sample No: 22-2256-010

Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/11/22				
Total Solids	82.52		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-13 (5-10)
Sample No: 22-2256-010

Date Collected: 04/06/22
Time Collected: 10:06
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/13/22				
Preparation Date: 04/12/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-13 (5-10)
Sample No: 22-2256-010

Date Collected: 04/06/22
Time Collected: 10:06
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/13/22		Preparation Date: 04/12/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-13 (5-10)
Sample No: 22-2256-010

Date Collected: 04/06/22
Time Collected: 10:06
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/13/22		Preparation Date: 04/12/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/11/22		Preparation Date: 04/08/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.7	1.0	mg/kg	
Barium	59.3	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	2.2	0.5	mg/kg	
Calcium	78,000	50	mg/kg	
Chromium	19.4	0.5	mg/kg	
Cobalt	6.9	0.5	mg/kg	
Copper	27.7	0.5	mg/kg	
Iron	23,400	5.0	mg/kg	
Lead	10.9	0.5	mg/kg	
Magnesium	38,500	50	mg/kg	
Manganese	325	0.5	mg/kg	
Nickel	20.5	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	1,160	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	29.1	1.0	mg/kg	
Zinc	50.1	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-13 (5-10)
Sample No: 22-2256-010

Date Collected: 04/06/22
Time Collected: 10:06
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/08/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/18/22 14:10				
pH @ 25°C, 1:2	8.65		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/07/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/12/22				
Preparation Method 3010A				
Preparation Date: 04/11/22				
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	0.7	0.1	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: 04/11/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/07/22				
SPLP Metals Extraction	Complete			
Arsenic	0.015	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-13 (5-10)
Sample No: 22-2256-010

Date Collected: 04/06/22
Time Collected: 10:06
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312	Method: 6010C	Preparation Method 3010A		
Analysis Date: 04/12/22		Preparation Date: 04/11/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.091	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.081	0.005	mg/L	
Iron	82.9	0.1	mg/L	
Lead	0.034	0.005	mg/L	
Manganese	0.4	0.1	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	

SPLP Mercury Method 1312	Method: 7470A			
Analysis Date: 04/12/22				
Mercury	< 0.0005	0.0005	mg/L	

Sample QC Summary: Surrogate Recovery				%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	103	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	97	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	96	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	80	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	73	45	112
8270C	2-Fluorophenol (Surr)	%R:	67	41	84
8270C	d14-Terphenyl (Surr)	%R:	94	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	78	35	105
8270C	Phenol-d5 (surr)	%R:	73.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-14 (0-5)
Sample No: 22-2256-011

Date Collected: 04/06/22
Time Collected: 10:00
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/11/22				
Total Solids	89.74		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-14 (0-5)
Sample No: 22-2256-011

Date Collected: 04/06/22
Time Collected: 10:00
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/13/22				
Preparation Date: 04/12/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-14 (0-5)
Sample No: 22-2256-011

Date Collected: 04/06/22
Time Collected: 10:00
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/13/22		Preparation Date: 04/12/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-14 (0-5)
Sample No: 22-2256-011

Date Collected: 04/06/22
Time Collected: 10:00
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/13/22		Preparation Date: 04/12/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/11/22		Preparation Date: 04/08/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.7	1.0	mg/kg	
Barium	19.2	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	1.3	0.5	mg/kg	
Calcium	84,500	50	mg/kg	
Chromium	10.0	0.5	mg/kg	
Cobalt	4.8	0.5	mg/kg	
Copper	20.6	0.5	mg/kg	
Iron	13,700	5.0	mg/kg	
Lead	7.4	0.5	mg/kg	
Magnesium	42,500	50	mg/kg	
Manganese	354	0.5	mg/kg	
Nickel	12.7	0.5	mg/kg	
Potassium	743	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	15.5	1.0	mg/kg	
Zinc	30.7	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-14 (0-5)
Sample No: 22-2256-011

Date Collected: 04/06/22
Time Collected: 10:00
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/12/22		Preparation Date: 04/11/22		
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	0.101	0.005	mg/L	
Iron	76.1	0.1	mg/L	
Lead	0.043	0.005	mg/L	
Manganese	1.1	0.1	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/12/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	101	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	98	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	93	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	82.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	78	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	67.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	100	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	78	35 -	105
8270C	Phenol-d5 (surr)	%R:	76	50 -	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-14 (5-10)
Sample No: 22-2256-012

Date Collected: 04/06/22
Time Collected: 10:01
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/11/22				
Total Solids	86.84		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-14 (5-10)
Sample No: 22-2256-012

Date Collected: 04/06/22
Time Collected: 10:01
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/13/22				
Preparation Date: 04/12/22				
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	227	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-14 (5-10)
Sample No: 22-2256-012

Date Collected: 04/06/22
Time Collected: 10:01
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/13/22		Preparation Date: 04/12/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	735	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-14 (5-10)
Sample No: 22-2256-012

Date Collected: 04/06/22
Time Collected: 10:01
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/13/22		Preparation Date: 04/12/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	598	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	561	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/11/22		Preparation Date: 04/08/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.4	1.0	mg/kg	
Barium	40.7	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	1.1	0.5	mg/kg	
Calcium	79,400	50	mg/kg	
Chromium	14.3	0.5	mg/kg	
Cobalt	4.9	0.5	mg/kg	
Copper	15.3	0.5	mg/kg	
Iron	11,400	5.0	mg/kg	
Lead	8.3	0.5	mg/kg	
Magnesium	42,800	50	mg/kg	
Manganese	317	0.5	mg/kg	
Nickel	11.6	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	1,210	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	18.2	1.0	mg/kg	
Zinc	32.4	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-14 (5-10)
Sample No: 22-2256-012

Date Collected: 04/06/22
Time Collected: 10:01
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/08/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/18/22 14:10				
pH @ 25°C, 1:2	8.73		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/07/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/12/22				
Preparation Method 3010A				
Preparation Date: 04/11/22				
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	2.6	0.1	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: 04/11/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/07/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-14 (5-10)
Sample No: 22-2256-012

Date Collected: 04/06/22
Time Collected: 10:01
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/13/22		Preparation Date: 04/12/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	0.007	0.005	mg/L	
Chromium	0.043	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.047	0.005	mg/L	
Iron	37.1	0.1	mg/L	
Lead	0.018	0.005	mg/L	
Manganese	0.4	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/12/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	100	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	94	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	77	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	82	45	112
8270C	2-Fluorophenol (Surr)	%R:	75.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	97	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	84	35	105
8270C	Phenol-d5 (surr)	%R:	80.5	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/06/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 9:45

Sample ID: 3919-COV-13-16 (0-5)

Date Received: 04/07/22

Sample No: 22-2256-015

Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/07/22				
Total Solids	88.00		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-16 (0-5)
Sample No: 22-2256-015

Date Collected: 04/06/22
Time Collected: 9:45
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/13/22				
Preparation Date: 04/12/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-16 (0-5)
Sample No: 22-2256-015

Date Collected: 04/06/22
Time Collected: 9:45
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/13/22		Preparation Date: 04/12/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-16 (0-5)
Sample No: 22-2256-015

Date Collected: 04/06/22
Time Collected: 9:45
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/13/22		Preparation Date: 04/12/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/11/22		Preparation Date: 04/08/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.4	1.0	mg/kg	
Barium	46.1	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	1.4	0.5	mg/kg	
Calcium	81,800	50	mg/kg	
Chromium	13.8	0.5	mg/kg	
Cobalt	6.6	0.5	mg/kg	
Copper	16.9	0.5	mg/kg	
Iron	14,400	5.0	mg/kg	
Lead	6.5	0.5	mg/kg	
Magnesium	38,600	50	mg/kg	
Manganese	383	0.5	mg/kg	
Nickel	16.4	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	2,240	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	19.4	1.0	mg/kg	
Zinc	31.2	1.0	mg/kg	



Analytical Report

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Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-16 (0-5)
Sample No: 22-2256-015

Date Collected: 04/06/22
Time Collected: 9:45
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/13/22		Preparation Date: 04/12/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	0.012	0.005	mg/L	
Chromium	0.132	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.178	0.005	mg/L	
Iron	136	0.1	mg/L	
Lead	0.072	0.005	mg/L	
Manganese	2.3	0.1	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/12/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	102.6	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	97.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	94.1	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	80	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	71	45	112
8270C	2-Fluorophenol (Surr)	%R:	69.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	94	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	78	35	105
8270C	Phenol-d5 (surr)	%R:	75.5	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/06/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 9:46

Sample ID: 3919-COV-13-16 (5-10)

Date Received: 04/07/22

Sample No: 22-2256-016

Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/07/22				
Total Solids	72.04		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

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Date Collected: 04/06/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 9:46

Sample ID: 3919-COV-13-16 (5-10)

Date Received: 04/07/22

Sample No: 22-2256-016

Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/13/22				
Preparation Date: 04/12/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-16 (5-10)
Sample No: 22-2256-016

Date Collected: 04/06/22
Time Collected: 9:46
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/13/22		Preparation Date: 04/12/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-16 (5-10)
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Date Collected: 04/06/22
Time Collected: 9:46
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/13/22		Preparation Date: 04/12/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/11/22		Preparation Date: 04/08/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.0	1.0	mg/kg	
Barium	139	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	1.6	0.5	mg/kg	
Calcium	9,070	50	mg/kg	
Chromium	22.6	0.5	mg/kg	
Cobalt	8.7	0.5	mg/kg	
Copper	26.8	0.5	mg/kg	
Iron	17,600	5.0	mg/kg	
Lead	14.0	0.5	mg/kg	
Magnesium	7,380	50	mg/kg	
Manganese	171	0.5	mg/kg	
Nickel	26.6	0.5	mg/kg	
Potassium	1,290	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	2,260	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	30.8	1.0	mg/kg	
Zinc	56.3	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-16 (5-10)
Sample No: 22-2256-016

Date Collected: 04/06/22
Time Collected: 9:46
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/13/22		Preparation Date: 04/12/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.009	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.013	0.005	mg/L	
Iron	4.8	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/13/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>Low</i>	<i>High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 100	86	117	
5035A/8260B	d8-Toluene (Surr)	%R: 96.8	90	110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 93	77	120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 83.5	59	131	
8270C	2-Fluorobiphenyl (Surr)	%R: 79	45	112	
8270C	2-Fluorophenol (Surr)	%R: 73	41	84	
8270C	d14-Terphenyl (Surr)	%R: 102	56	120	
8270C	d5-Nitrobenzene (Surr)	%R: 66	35	105	
8270C	Phenol-d5 (surr)	%R: 81	50	100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 13-17 (0-5)
Sample No: 22-2001-011

Date Collected: 03/29/22
Time Collected: 10:20
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/31/22		Preparation Date: 03/30/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 03/31/22		Preparation Date: 03/31/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.0	1.0	mg/kg	
Barium	109	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	1.3	0.5	mg/kg	
Calcium	54,300	50	mg/kg	
Chromium	20.2	0.5	mg/kg	
Cobalt	11.9	0.5	mg/kg	
Copper	24.6	0.5	mg/kg	
Iron	20,400	5.0	mg/kg	
Lead	12.4	0.5	mg/kg	
Magnesium	34,800	50	mg/kg	
Manganese	621	0.5	mg/kg	
Nickel	30.0	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	326	50	mg/kg	
Thallium	1.1	1.0	mg/kg	
Vanadium	29.8	1.0	mg/kg	
Zinc	43.6	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 13-17 (0-5)
Sample No: 22-2001-011

Date Collected: 03/29/22
Time Collected: 10:20
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/04/22		Preparation Date: 04/01/22		
Barium	1.7	1.0	mg/L	
Beryllium	0.008	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.275	0.005	mg/L	
Cobalt	0.2	0.1	mg/L	
Copper	0.269	0.005	mg/L	
Iron	221	0.1	mg/L	
Lead	0.109	0.005	mg/L	
Manganese	2.9	0.1	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/01/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	92.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	95.1	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	99.5	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	109.9	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	65	45	112
8270C	2-Fluorophenol (Surr)	%R:	60	41	84
8270C	d14-Terphenyl (Surr)	%R:	92.5	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	67.2	35	105
8270C	Phenol-d5 (surr)	%R:	73.7	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 03/29/22

Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08

Time Collected: 10:22

Sample ID: 13-17 (5-10)

Date Received: 03/30/22

Sample No: 22-2001-012

Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 03/30/22				
Total Solids	85.90		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 13-17 (5-10)
Sample No: 22-2001-012

Date Collected: 03/29/22
Time Collected: 10:22
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/31/22				
Preparation Date: 03/30/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 13-17 (5-10)
Sample No: 22-2001-012

Date Collected: 03/29/22
Time Collected: 10:22
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/31/22		Preparation Date: 03/30/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 13-17 (5-10)
Sample No: 22-2001-012

Date Collected: 03/29/22
Time Collected: 10:22
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/31/22		Preparation Date: 03/30/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 03/31/22		Preparation Date: 03/31/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.1	1.0	mg/kg	
Barium	35.9	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	1.2	0.5	mg/kg	
Calcium	87,500	50	mg/kg	
Chromium	15.5	0.5	mg/kg	
Cobalt	10.8	0.5	mg/kg	
Copper	19.6	0.5	mg/kg	
Iron	18,900	5.0	mg/kg	
Lead	10.3	0.5	mg/kg	
Magnesium	43,700	50	mg/kg	
Manganese	463	0.5	mg/kg	
Nickel	24.8	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	211	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	22.5	1.0	mg/kg	
Zinc	39.3	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 13-17 (5-10)
Sample No: 22-2001-012

Date Collected: 03/29/22
Time Collected: 10:22
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/04/22		Preparation Date: 04/01/22		
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	0.049	0.005	mg/L	
Iron	50.4	0.1	mg/L	
Lead	0.022	0.005	mg/L	
Manganese	0.4	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/01/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	90.6	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	95.1	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	98.3	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	115.2	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	70.1	45	112
8270C	2-Fluorophenol (Surr)	%R:	64.9	41	84
8270C	d14-Terphenyl (Surr)	%R:	90	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	78.5	35	105
8270C	Phenol-d5 (surr)	%R:	82.7	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 03/29/22

Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08

Time Collected: 10:02

Sample ID: 13-19 (0-5)

Date Received: 03/30/22

Sample No: 22-2001-007

Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 03/30/22				
Total Solids	83.13		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
Acetone	< 200	200	ug/kg	
Benzene	17.6	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	22.1	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 13-19 (0-5)
Sample No: 22-2001-007

Date Collected: 03/29/22
Time Collected: 10:02
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	7.5	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/31/22				
Preparation Date: 03/30/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 13-19 (0-5)
Sample No: 22-2001-007

Date Collected: 03/29/22
Time Collected: 10:02
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/31/22		Preparation Date: 03/30/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 13-19 (0-5)
Sample No: 22-2001-007

Date Collected: 03/29/22
Time Collected: 10:02
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/31/22		Preparation Date: 03/30/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 03/31/22		Preparation Date: 03/31/22		
Antimony	1.0	1.0	mg/kg	
Arsenic	5.2	1.0	mg/kg	
Barium	82.4	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	1.0	0.5	mg/kg	
Calcium	58,900	50	mg/kg	
Chromium	15.3	0.5	mg/kg	
Cobalt	7.1	0.5	mg/kg	
Copper	17.0	0.5	mg/kg	
Iron	16,500	5.0	mg/kg	
Lead	12.9	0.5	mg/kg	
Magnesium	32,000	50	mg/kg	
Manganese	330	0.5	mg/kg	
Nickel	15.3	0.5	mg/kg	
Potassium	1,070	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,500	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	29.1	1.0	mg/kg	
Zinc	37.3	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 13-19 (0-5)
Sample No: 22-2001-007

Date Collected: 03/29/22
Time Collected: 10:02
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/04/22		Preparation Date: 04/01/22		
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	0.030	0.005	mg/L	
Iron	27.0	0.1	mg/L	
Lead	0.013	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/01/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary: Surrogate Recovery				%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	92.8	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	95.1	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	97.5	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	110.8	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	68	45	112
8270C	2-Fluorophenol (Surr)	%R:	54.9	41	84
8270C	d14-Terphenyl (Surr)	%R:	100.8	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	57.6	35	105
8270C	Phenol-d5 (surr)	%R:	71.3	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 03/29/22

Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08

Time Collected: 10:04

Sample ID: 13-19 (5-10)

Date Received: 03/30/22

Sample No: 22-2001-008

Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 03/30/22				
Total Solids	83.98		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 13-19 (5-10)
Sample No: 22-2001-008

Date Collected: 03/29/22
Time Collected: 10:04
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/31/22				
Preparation Date: 03/30/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 13-19 (5-10)
Sample No: 22-2001-008

Date Collected: 03/29/22
Time Collected: 10:04
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/31/22		Preparation Date: 03/30/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 13-19 (5-10)
Sample No: 22-2001-008

Date Collected: 03/29/22
Time Collected: 10:04
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/31/22		Preparation Date: 03/30/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 03/31/22		Preparation Date: 03/31/22		
Antimony	1.2	1.0	mg/kg	
Arsenic	5.3	1.0	mg/kg	
Barium	67.2	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	1.3	0.5	mg/kg	
Calcium	62,100	50	mg/kg	
Chromium	19.7	0.5	mg/kg	
Cobalt	8.3	0.5	mg/kg	
Copper	33.4	0.5	mg/kg	
Iron	22,500	5.0	mg/kg	
Lead	25.5	0.5	mg/kg	
Magnesium	36,600	50	mg/kg	
Manganese	258	0.5	mg/kg	
Nickel	23.5	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	893	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	37.6	1.0	mg/kg	
Zinc	52.8	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 13-19 (5-10)
Sample No: 22-2001-008

Date Collected: 03/29/22
Time Collected: 10:04
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/04/22		Preparation Date: 04/01/22		
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	0.034	0.005	mg/L	
Iron	33.8	0.1	mg/L	
Lead	0.012	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/01/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	103	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	96.1	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	95.1	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	130.7	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	83.8	45	112
8270C	2-Fluorophenol (Surr)	%R:	65	41	84
8270C	d14-Terphenyl (Surr)	%R:	99.6	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	85.8	35	105
8270C	Phenol-d5 (surr)	%R:	83	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 03/29/22

Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08

Time Collected: 9:50

Sample ID: 13-20 (0-5)

Date Received: 03/30/22

Sample No: 22-2001-005

Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 03/30/22				
Total Solids	91.41		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 13-20 (0-5)
Sample No: 22-2001-005

Date Collected: 03/29/22
Time Collected: 9:50
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/31/22				
Preparation Date: 03/30/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 13-20 (0-5)
Sample No: 22-2001-005

Date Collected: 03/29/22
Time Collected: 9:50
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/31/22		Preparation Date: 03/30/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 13-20 (0-5)
Sample No: 22-2001-005

Date Collected: 03/29/22
Time Collected: 9:50
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/31/22		Preparation Date: 03/30/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 03/31/22		Preparation Date: 03/31/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.8	1.0	mg/kg	
Barium	17.3	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	1.0	0.5	mg/kg	
Calcium	83,200	50	mg/kg	
Chromium	10.5	0.5	mg/kg	
Cobalt	7.0	0.5	mg/kg	
Copper	20.3	0.5	mg/kg	
Iron	15,100	5.0	mg/kg	
Lead	9.1	0.5	mg/kg	
Magnesium	45,300	50	mg/kg	
Manganese	448	0.5	mg/kg	
Nickel	15.8	0.5	mg/kg	
Potassium	834	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	726	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	18.1	1.0	mg/kg	
Zinc	40.7	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 13-20 (0-5)
Sample No: 22-2001-005

Date Collected: 03/29/22
Time Collected: 9:50
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 03/31/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/05/22 14:05				
pH @ 25°C, 1:2	8.47		Units	
TCLP Extraction Method: 1311				
Analysis Date: 03/30/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/01/22				
Preparation Method 3010A				
Preparation Date: 03/31/22				
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	0.8	0.1	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: 03/31/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 03/30/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 13-20 (0-5)
Sample No: 22-2001-005

Date Collected: 03/29/22
Time Collected: 9:50
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/04/22		Preparation Date: 04/01/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.021	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.040	0.005	mg/L	
Iron	26.9	0.1	mg/L	
Lead	0.011	0.005	mg/L	
Manganese	0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/01/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	91.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	94.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	98.2	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	114.2	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	72.2	45	112
8270C	2-Fluorophenol (Surr)	%R:	63.4	41	84
8270C	d14-Terphenyl (Surr)	%R:	90.4	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	79.9	35	105
8270C	Phenol-d5 (surr)	%R:	76.3	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 03/29/22

Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08

Time Collected: 9:51

Sample ID: 13-20 (5-10)

Date Received: 03/30/22

Sample No: 22-2001-006

Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 03/30/22				
Total Solids	87.39		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 13-20 (5-10)
Sample No: 22-2001-006

Date Collected: 03/29/22
Time Collected: 9:51
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/31/22				
Preparation Date: 03/30/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 13-20 (5-10)
Sample No: 22-2001-006

Date Collected: 03/29/22
Time Collected: 9:51
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/31/22		Preparation Date: 03/30/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 13-20 (5-10)
Sample No: 22-2001-006

Date Collected: 03/29/22
Time Collected: 9:51
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/31/22		Preparation Date: 03/30/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 03/31/22		Preparation Date: 03/31/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.5	1.0	mg/kg	
Barium	27.4	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	1.1	0.5	mg/kg	
Calcium	103,000	50	mg/kg	
Chromium	16.4	0.5	mg/kg	
Cobalt	6.6	0.5	mg/kg	
Copper	21.1	0.5	mg/kg	
Iron	17,400	5.0	mg/kg	
Lead	9.6	0.5	mg/kg	
Magnesium	48,100	50	mg/kg	
Manganese	362	0.5	mg/kg	
Nickel	20.0	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	644	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	22.2	1.0	mg/kg	
Zinc	40.8	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 13-20 (5-10)
Sample No: 22-2001-006

Date Collected: 03/29/22
Time Collected: 9:51
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/04/22		Preparation Date: 04/01/22		
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	0.055	0.005	mg/L	
Iron	48.9	0.1	mg/L	
Lead	0.022	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/01/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	91.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	95.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	100.2	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	107.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	60.2	45	112
8270C	2-Fluorophenol (Surr)	%R:	59.3	41	84
8270C	d14-Terphenyl (Surr)	%R:	85	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	74.8	35	105
8270C	Phenol-d5 (surr)	%R:	72.3	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 14-02 (0-5)
Sample No: 22-2117-043

Date Collected: 04/01/22
Time Collected: 13:30
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/08/22		Preparation Date: 04/07/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/07/22		Preparation Date: 04/06/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.7	1.0	mg/kg	
Barium	49.4	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	0.9	0.5	mg/kg	
Calcium	70,100	50	mg/kg	
Chromium	15.2	0.5	mg/kg	
Cobalt	8.4	0.5	mg/kg	
Copper	17.2	0.5	mg/kg	
Iron	18,400	5.0	mg/kg	
Lead	9.9	0.5	mg/kg	
Magnesium	36,700	50	mg/kg	
Manganese	439	0.5	mg/kg	
Nickel	21.1	0.5	mg/kg	
Potassium	1,470	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,630	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	21.1	1.0	mg/kg	
Zinc	35.5	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 14-02 (0-5)
Sample No: 22-2117-043

Date Collected: 04/01/22
Time Collected: 13:30
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/08/22		Preparation Date: 04/08/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	0.004	0.004	mg/L	
Cadmium	0.006	0.005	mg/L	
Chromium	0.129	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.133	0.005	mg/L	
Iron	119	0.1	mg/L	
Lead	0.045	0.005	mg/L	
Manganese	1.0	0.1	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/07/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	101.4	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	97.5	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	93	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	79.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	76	45	112
8270C	2-Fluorophenol (Surr)	%R:	63.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	103	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	74	35	105
8270C	Phenol-d5 (surr)	%R:	74	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 14-02 (5-6.5)
Sample No: 22-2117-044

Date Collected: 04/01/22
Time Collected: 13:32
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/05/22				
Total Solids	87.01		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/09/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 14-02 (5-6.5)
Sample No: 22-2117-044

Date Collected: 04/01/22
Time Collected: 13:32
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/09/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/08/22				
Preparation Date: 04/07/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 14-02 (5-6.5)
Sample No: 22-2117-044

Date Collected: 04/01/22
Time Collected: 13:32
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/08/22		Preparation Date: 04/07/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 14-02 (5-6.5)
Sample No: 22-2117-044

Date Collected: 04/01/22
Time Collected: 13:32
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/08/22		Preparation Date: 04/07/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/07/22		Preparation Date: 04/06/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.2	1.0	mg/kg	
Barium	23.7	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	0.6	0.5	mg/kg	
Calcium	73,900	50	mg/kg	
Chromium	13.0	0.5	mg/kg	
Cobalt	4.6	0.5	mg/kg	
Copper	19.0	0.5	mg/kg	
Iron	14,700	5.0	mg/kg	
Lead	10.6	0.5	mg/kg	
Magnesium	40,200	50	mg/kg	
Manganese	291	0.5	mg/kg	
Nickel	15.9	0.5	mg/kg	
Potassium	1,540	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	403	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	16.2	1.0	mg/kg	
Zinc	37.7	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 14-02 (5-6.5)
Sample No: 22-2117-044

Date Collected: 04/01/22
Time Collected: 13:32
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/07/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/15/22 10:49				
pH @ 25°C, 1:2	8.82		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/05/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/08/22				
Preparation Method 3010A				
Preparation Date: 04/08/22				
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	4.0	0.1	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: 04/08/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/05/22				
SPLP Metals Extraction	Complete			
Arsenic	0.025	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 14-02 (5-6.5)
Sample No: 22-2117-044

Date Collected: 04/01/22
Time Collected: 13:32
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/08/22		Preparation Date: 04/08/22		
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	0.084	0.005	mg/L	
Iron	79.0	0.1	mg/L	
Lead	0.024	0.005	mg/L	
Manganese	0.3	0.1	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/07/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	100.4	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	90.6	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	78.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	73	45	112
8270C	2-Fluorophenol (Surr)	%R:	65	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.

Date Collected: 04/01/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 13:38

Sample ID: 14-01 (0-5)

Date Received: 04/04/22

Sample No: 22-2117-045

Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/05/22				
Total Solids	88.64		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/09/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 14-01 (0-5)
Sample No: 22-2117-045

Date Collected: 04/01/22
Time Collected: 13:38
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/09/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/08/22				
Preparation Date: 04/07/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 14-01 (0-5)
Sample No: 22-2117-045

Date Collected: 04/01/22
Time Collected: 13:38
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/08/22		Preparation Date: 04/07/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 14-03 (0-5)
Sample No: 22-2117-041

Date Collected: 04/01/22
Time Collected: 13:22
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/08/22		Preparation Date: 04/07/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/07/22		Preparation Date: 04/06/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.3	1.0	mg/kg	
Barium	55.0	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	0.8	0.5	mg/kg	
Calcium	26,100	50	mg/kg	
Chromium	18.4	0.5	mg/kg	
Cobalt	11.8	0.5	mg/kg	
Copper	22.1	0.5	mg/kg	
Iron	20,500	5.0	mg/kg	
Lead	18.7	0.5	mg/kg	
Magnesium	16,700	50	mg/kg	
Manganese	417	0.5	mg/kg	
Nickel	25.0	0.5	mg/kg	
Potassium	1,400	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	2,160	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	31.2	1.0	mg/kg	
Zinc	50.9	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 14-03 (0-5)
Sample No: 22-2117-041

Date Collected: 04/01/22
Time Collected: 13:22
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/07/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/15/22 10:49				
pH @ 25°C, 1:2	8.31		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/05/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/08/22				
Preparation Method 3010A				
Preparation Date: 04/08/22				
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	2.6	0.1	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: 04/08/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/05/22				
SPLP Metals Extraction	Complete			
Arsenic	0.019	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 14-03 (0-5)
Sample No: 22-2117-041

Date Collected: 04/01/22
Time Collected: 13:22
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/07/22		Preparation Date: 04/07/22		
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	0.074	0.005	mg/L	
Iron	75.3	0.1	mg/L	
Lead	0.153	0.005	mg/L	
Manganese	1.3	0.1	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/07/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	100.4	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	97.3	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	92.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	79.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	78	45	112
8270C	2-Fluorophenol (Surr)	%R:	70.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	98	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	74	35	105
8270C	Phenol-d5 (surr)	%R:	78	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 14-03 (5-6.5)
Sample No: 22-2117-042

Date Collected: 04/01/22
Time Collected: 13:23
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/05/22				
Total Solids	88.24		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/09/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 14-03 (5-6.5)
Sample No: 22-2117-042

Date Collected: 04/01/22
Time Collected: 13:23
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/09/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/08/22				
Preparation Date: 04/07/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 14-03 (5-6.5)
Sample No: 22-2117-042

Date Collected: 04/01/22
Time Collected: 13:23
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/08/22		Preparation Date: 04/07/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 14-03 (5-6.5)
Sample No: 22-2117-042

Date Collected: 04/01/22
Time Collected: 13:23
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/08/22		Preparation Date: 04/07/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/07/22		Preparation Date: 04/06/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.1	1.0	mg/kg	
Barium	25.9	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	80,100	50	mg/kg	
Chromium	10.7	0.5	mg/kg	
Cobalt	7.3	0.5	mg/kg	
Copper	13.2	0.5	mg/kg	
Iron	11,600	5.0	mg/kg	
Lead	5.5	0.5	mg/kg	
Magnesium	38,200	50	mg/kg	
Manganese	309	0.5	mg/kg	
Nickel	14.1	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	394	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	16.9	1.0	mg/kg	
Zinc	24.6	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 14-03 (5-6.5)
Sample No: 22-2117-042

Date Collected: 04/01/22
Time Collected: 13:23
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/07/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/15/22 10:49				
pH @ 25°C, 1:2	8.93		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/05/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/07/22				
Preparation Method 3010A				
Preparation Date: 04/07/22				
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	3.4	0.1	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: 04/08/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/05/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 14-03 (5-6.5)
Sample No: 22-2117-042

Date Collected: 04/01/22
Time Collected: 13:23
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/08/22		Preparation Date: 04/08/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.023	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.021	0.005	mg/L	
Iron	18.3	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/07/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	102.6	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	91.8	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	77	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	75	45	112
8270C	2-Fluorophenol (Surr)	%R:	65.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	95	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	76	35	105
8270C	Phenol-d5 (surr)	%R:	74	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-15-01 (0-3)
Sample No: 22-2256-017

Date Collected: 04/06/22
Time Collected: 9:40
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/07/22				
Total Solids	78.82		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-15-01 (0-3)
Sample No: 22-2256-017

Date Collected: 04/06/22
Time Collected: 9:40
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/14/22				
Preparation Date: 04/12/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

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Date Collected: 04/06/22
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Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/14/22		Preparation Date: 04/12/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

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Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-15-01 (0-3)
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Date Collected: 04/06/22
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Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/14/22		Preparation Date: 04/12/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/11/22		Preparation Date: 04/08/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	11.4	1.0	mg/kg	
Barium	72.0	0.5	mg/kg	
Beryllium	1.0	0.5	mg/kg	
Cadmium	3.0	0.5	mg/kg	
Calcium	2,170	50	mg/kg	
Chromium	34.0	0.5	mg/kg	
Cobalt	15.1	0.5	mg/kg	
Copper	37.5	0.5	mg/kg	
Iron	35,900	5.0	mg/kg	
Lead	18.5	0.5	mg/kg	
Magnesium	6,280	50	mg/kg	
Manganese	243	0.5	mg/kg	
Nickel	40.9	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	4,790	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	44.5	1.0	mg/kg	
Zinc	71.8	1.0	mg/kg	



Analytical Report

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Sample No: 22-2256-017

Date Collected: 04/06/22
Time Collected: 9:40
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/08/22				
Mercury	0.06	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/18/22 14:10				
pH @ 25°C, 1:2	8.74		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/11/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/13/22				
Preparation Method 3010A				
Preparation Date: 04/12/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	3.2	0.1	mg/L	
Lead	0.009	0.005	mg/L	
Manganese	0.8	0.1	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: 04/13/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/11/22				
SPLP Metals Extraction	Complete			
Arsenic	0.052	0.010	mg/L	



Analytical Report

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Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-15-01 (0-3)
Sample No: 22-2256-017

Date Collected: 04/06/22
Time Collected: 9:40
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/13/22		Preparation Date: 04/12/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	0.008	0.004	mg/L	
Cadmium	0.015	0.005	mg/L	
Chromium	0.188	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.193	0.005	mg/L	
Iron	188	0.1	mg/L	
Lead	0.102	0.005	mg/L	
Manganese	1.1	0.1	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/13/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	100.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	92.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	110.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	63	45	112
8270C	2-Fluorophenol (Surr)	%R:	62	41	84
8270C	d14-Terphenyl (Surr)	%R:	86	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	69	35	105
8270C	Phenol-d5 (surr)	%R:	77.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-15-02 (0-3)
Sample No: 22-2256-018

Date Collected: 04/06/22
Time Collected: 9:30
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/07/22				
Total Solids	88.50		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
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	



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Sample ID: 3919-COV-15-02 (0-3)
Sample No: 22-2256-018

Date Collected: 04/06/22
Time Collected: 9:30
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/14/22				
Preparation Date: 04/12/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
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Sample ID: 3919-COV-15-02 (0-3)
Sample No: 22-2256-018

Date Collected: 04/06/22
Time Collected: 9:30
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/14/22		Preparation Date: 04/12/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-15-02 (0-3)
Sample No: 22-2256-018

Date Collected: 04/06/22
Time Collected: 9:30
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/14/22		Preparation Date: 04/12/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 04/11/22		Preparation Date: 04/08/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.7	1.0	mg/kg	
Barium	49.8	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	2.0	0.5	mg/kg	
Calcium	61,400	50	mg/kg	
Chromium	20.0	0.5	mg/kg	
Cobalt	10.0	0.5	mg/kg	
Copper	25.6	0.5	mg/kg	
Iron	21,100	5.0	mg/kg	
Lead	12.8	0.5	mg/kg	
Magnesium	36,400	50	mg/kg	
Manganese	407	0.5	mg/kg	
Nickel	25.8	0.5	mg/kg	
Potassium	2,020	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	3,840	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	27.7	1.0	mg/kg	
Zinc	45.4	1.0	mg/kg	



Analytical Report

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Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-15-02 (0-3)
Sample No: 22-2256-018

Date Collected: 04/06/22
Time Collected: 9:30
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/13/22		Preparation Date: 04/12/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	0.006	0.005	mg/L	
Chromium	0.035	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.043	0.005	mg/L	
Iron	33.6	0.1	mg/L	
Lead	0.019	0.005	mg/L	
Manganese	0.4	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/13/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	102.6	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	97.5	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	96.6	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	115	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	72	45	112
8270C	2-Fluorophenol (Surr)	%R:	59.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	92	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	78	35	105
8270C	Phenol-d5 (surr)	%R:	75.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 16-01 (0-5.5)
Sample No: 22-2117-022

Date Collected: 04/01/22
Time Collected: 10:57
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/07/22		Preparation Date: 04/06/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.8	1.0	mg/kg	
Barium	47.5	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	0.7	0.5	mg/kg	
Calcium	48,000	50	mg/kg	
Chromium	14.5	0.5	mg/kg	
Cobalt	6.2	0.5	mg/kg	
Copper	17.0	0.5	mg/kg	
Iron	16,300	5.0	mg/kg	
Lead	10.9	0.5	mg/kg	
Magnesium	25,200	50	mg/kg	
Manganese	355	0.5	mg/kg	
Nickel	16.2	0.5	mg/kg	
Potassium	1,140	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	23.9	1.0	mg/kg	
Zinc	31.6	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 16-01 (0-5.5)
Sample No: 22-2117-022

Date Collected: 04/01/22
Time Collected: 10:57
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/06/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/15/22 8:45				
pH @ 25°C, 1:2	8.28		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/04/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/07/22				
Preparation Method 3010A				
Preparation Date: 04/06/22				
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	2.7	0.1	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: 04/07/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/04/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 16-01 (0-5.5)
Sample No: 22-2117-022

Date Collected: 04/01/22
Time Collected: 10:57
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/08/22		Preparation Date: 04/06/22		
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	0.053	0.005	mg/L	
Iron	55.8	0.1	mg/L	
Lead	0.019	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/07/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	87.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	102	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	114.8	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	115.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	65	45	112
8270C	2-Fluorophenol (Surr)	%R:	63.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	94	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	83	35	105
8270C	Phenol-d5 (surr)	%R:	80.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 16-02 (0-5.5)
Sample No: 22-2117-023

Date Collected: 04/01/22
Time Collected: 11:03
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/04/22				
Total Solids	86.78		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/06/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 16-02 (0-5.5)
Sample No: 22-2117-023

Date Collected: 04/01/22
Time Collected: 11:03
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/06/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/07/22				
Preparation Date: 04/06/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 16-02 (0-5.5)
Sample No: 22-2117-023

Date Collected: 04/01/22
Time Collected: 11:03
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/07/22		Preparation Date: 04/06/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/06/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 10:55

Sample ID: 3919-COV-17-01 (0-5)

Date Received: 04/07/22

Sample No: 22-2256-019

Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/11/22				
Total Solids	84.34		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-17-01 (0-5)
Sample No: 22-2256-019

Date Collected: 04/06/22
Time Collected: 10:55
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/14/22				
Preparation Date: 04/12/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-17-01 (0-5)
Sample No: 22-2256-019

Date Collected: 04/06/22
Time Collected: 10:55
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/14/22		Preparation Date: 04/12/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-17-01 (0-5)
Sample No: 22-2256-019

Date Collected: 04/06/22
Time Collected: 10:55
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/14/22		Preparation Date: 04/12/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 04/11/22		Preparation Date: 04/08/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.7	1.0	mg/kg	
Barium	54.0	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	2.0	0.5	mg/kg	
Calcium	65,900	50	mg/kg	
Chromium	19.0	0.5	mg/kg	
Cobalt	10.6	0.5	mg/kg	
Copper	26.8	0.5	mg/kg	
Iron	21,100	5.0	mg/kg	
Lead	11.4	0.5	mg/kg	
Magnesium	44,900	50	mg/kg	
Manganese	458	0.5	mg/kg	
Nickel	24.5	0.5	mg/kg	
Potassium	1,400	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	963	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	27.6	1.0	mg/kg	
Zinc	39.1	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-17-01 (0-5)
Sample No: 22-2256-019

Date Collected: 04/06/22
Time Collected: 10:55
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/13/22		Preparation Date: 04/12/22		
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	14.4	0.1	mg/L	
Lead	0.006	0.005	mg/L	
Manganese	0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/13/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>Low</i>	<i>High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 101	86	117	
5035A/8260B	d8-Toluene (Surr)	%R: 98	90	110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 93	77	120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 117	59	131	
8270C	2-Fluorobiphenyl (Surr)	%R: 67	45	112	
8270C	2-Fluorophenol (Surr)	%R: 63	41	84	
8270C	d14-Terphenyl (Surr)	%R: 97	56	120	
8270C	d5-Nitrobenzene (Surr)	%R: 69	35	105	
8270C	Phenol-d5 (surr)	%R: 77	50	100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/06/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 10:56

Sample ID: 3919-COV-17-01 (5-10)

Date Received: 04/07/22

Sample No: 22-2256-020

Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/07/22				
Total Solids	83.08		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-17-01 (5-10)
Sample No: 22-2256-020

Date Collected: 04/06/22
Time Collected: 10:56
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/14/22				
Preparation Date: 04/12/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-17-01 (5-10)
Sample No: 22-2256-020

Date Collected: 04/06/22
Time Collected: 10:56
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/14/22		Preparation Date: 04/12/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-17-01 (5-10)
Sample No: 22-2256-020

Date Collected: 04/06/22
Time Collected: 10:56
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/14/22		Preparation Date: 04/12/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/11/22		Preparation Date: 04/08/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.7	1.0	mg/kg	
Barium	36.3	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	1.8	0.5	mg/kg	
Calcium	88,400	50	mg/kg	
Chromium	15.6	0.5	mg/kg	
Cobalt	10.9	0.5	mg/kg	
Copper	20.6	0.5	mg/kg	
Iron	18,900	5.0	mg/kg	
Lead	10.5	0.5	mg/kg	
Magnesium	47,800	50	mg/kg	
Manganese	500	0.5	mg/kg	
Nickel	23.5	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	720	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	21.8	1.0	mg/kg	
Zinc	40.5	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-17-01 (5-10)
Sample No: 22-2256-020

Date Collected: 04/06/22
Time Collected: 10:56
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/13/22		Preparation Date: 04/12/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	0.006	0.005	mg/L	
Chromium	0.019	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.016	0.005	mg/L	
Iron	17.5	0.1	mg/L	
Lead	0.008	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/13/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	101	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	97.2	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	95.8	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	125	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	70	45	112
8270C	2-Fluorophenol (Surr)	%R:	65.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	96	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	78	35	105
8270C	Phenol-d5 (surr)	%R:	80	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-17-02 (0-5)
Sample No: 22-2256-021

Date Collected: 04/06/22
Time Collected: 10:45
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/11/22				
Total Solids	86.40		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-17-02 (0-5)
Sample No: 22-2256-021

Date Collected: 04/06/22
Time Collected: 10:45
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/14/22				
Preparation Date: 04/12/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-17-02 (0-5)
Sample No: 22-2256-021

Date Collected: 04/06/22
Time Collected: 10:45
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/14/22		Preparation Date: 04/12/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-17-02 (0-5)
Sample No: 22-2256-021

Date Collected: 04/06/22
Time Collected: 10:45
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/14/22		Preparation Date: 04/12/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 04/11/22		Preparation Date: 04/08/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.7	1.0	mg/kg	
Barium	51.1	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	1.4	0.5	mg/kg	
Calcium	29,700	50	mg/kg	
Chromium	15.4	0.5	mg/kg	
Cobalt	6.9	0.5	mg/kg	
Copper	16.7	0.5	mg/kg	
Iron	14,900	5.0	mg/kg	
Lead	76.3	0.5	mg/kg	
Magnesium	17,000	50	mg/kg	
Manganese	513	0.5	mg/kg	
Nickel	12.8	0.5	mg/kg	
Potassium	1,050	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	452	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	31.3	1.0	mg/kg	
Zinc	50.0	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-17-02 (0-5)
Sample No: 22-2256-021

Date Collected: 04/06/22
Time Collected: 10:45
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/13/22		Preparation Date: 04/12/22		
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	0.4	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/13/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>Low</i>	<i>High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 100	86	117	
5035A/8260B	d8-Toluene (Surr)	%R: 98	90	110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 95	77	120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 97	59	131	
8270C	2-Fluorobiphenyl (Surr)	%R: 70	45	112	
8270C	2-Fluorophenol (Surr)	%R: 56.5	41	84	
8270C	d14-Terphenyl (Surr)	%R: 82	56	120	
8270C	d5-Nitrobenzene (Surr)	%R: 78	35	105	
8270C	Phenol-d5 (surr)	%R: 69	50	100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-17-02 (5-10)
Sample No: 22-2256-022

Date Collected: 04/06/22
Time Collected: 10:46
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/11/22				
Total Solids	79.38		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-17-02 (5-10)
Sample No: 22-2256-022

Date Collected: 04/06/22
Time Collected: 10:46
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/14/22				
Preparation Date: 04/12/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-17-02 (5-10)
Sample No: 22-2256-022

Date Collected: 04/06/22
Time Collected: 10:46
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/14/22		Preparation Date: 04/12/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-17-02 (5-10)
Sample No: 22-2256-022

Date Collected: 04/06/22
Time Collected: 10:46
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/14/22		Preparation Date: 04/12/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/11/22		Preparation Date: 04/08/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.7	1.0	mg/kg	
Barium	81.2	0.5	mg/kg	
Beryllium	0.9	0.5	mg/kg	
Cadmium	2.2	0.5	mg/kg	
Calcium	27,600	50	mg/kg	
Chromium	25.7	0.5	mg/kg	
Cobalt	11.3	0.5	mg/kg	
Copper	26.6	0.5	mg/kg	
Iron	24,800	5.0	mg/kg	
Lead	17.6	0.5	mg/kg	
Magnesium	18,900	50	mg/kg	
Manganese	540	0.5	mg/kg	
Nickel	30.0	0.5	mg/kg	
Potassium	2,280	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	969	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	36.4	1.0	mg/kg	
Zinc	55.9	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-17-02 (5-10)
Sample No: 22-2256-022

Date Collected: 04/06/22
Time Collected: 10:46
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/14/22		Preparation Date: 04/12/22		
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	1.0	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/13/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>Low</i>	<i>High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 100	86	117	
5035A/8260B	d8-Toluene (Surr)	%R: 98	90	110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 94	77	120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 126	59	131	
8270C	2-Fluorobiphenyl (Surr)	%R: 80	45	112	
8270C	2-Fluorophenol (Surr)	%R: 64.5	41	84	
8270C	d14-Terphenyl (Surr)	%R: 112	56	120	
8270C	d5-Nitrobenzene (Surr)	%R: 79	35	105	
8270C	Phenol-d5 (surr)	%R: 78	50	100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 17-04 (0-4)
Sample No: 22-2001-003

Date Collected: 03/29/22
Time Collected: 9:40
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 03/30/22				
Total Solids	86.96		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 17-04 (0-4)
Sample No: 22-2001-003

Date Collected: 03/29/22
Time Collected: 9:40
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/31/22				
Preparation Date: 03/30/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 17-04 (0-4)
Sample No: 22-2001-003

Date Collected: 03/29/22
Time Collected: 9:40
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/31/22		Preparation Date: 03/30/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 17-04 (0-4)
Sample No: 22-2001-003

Date Collected: 03/29/22
Time Collected: 9:40
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/31/22		Preparation Date: 03/30/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 03/31/22		Preparation Date: 03/31/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.2	1.0	mg/kg	
Barium	31.7	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	1.1	0.5	mg/kg	
Calcium	85,000	50	mg/kg	
Chromium	14.5	0.5	mg/kg	
Cobalt	6.6	0.5	mg/kg	
Copper	17.8	0.5	mg/kg	
Iron	16,500	5.0	mg/kg	
Lead	7.5	0.5	mg/kg	
Magnesium	41,200	50	mg/kg	
Manganese	330	0.5	mg/kg	
Nickel	20.6	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	664	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	20.3	1.0	mg/kg	
Zinc	36.3	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 17-04 (0-4)
Sample No: 22-2001-003

Date Collected: 03/29/22
Time Collected: 9:40
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/04/22		Preparation Date: 04/01/22		
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	0.010	0.005	mg/L	
Iron	10.3	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/01/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	91.4	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	94.3	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	99.2	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	109.8	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	63.9	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	58.3	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	84.2	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	75.2	35 -	105
8270C	Phenol-d5 (surr)	%R:	73.1	50 -	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 17-04 (5-10)
Sample No: 22-2001-004

Date Collected: 03/29/22
Time Collected: 9:47
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 03/30/22				
Total Solids	87.54		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 17-04 (5-10)
Sample No: 22-2001-004

Date Collected: 03/29/22
Time Collected: 9:47
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/31/22				
Preparation Date: 03/30/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 17-04 (5-10)
Sample No: 22-2001-004

Date Collected: 03/29/22
Time Collected: 9:47
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/31/22		Preparation Date: 03/30/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 17-04 (5-10)
Sample No: 22-2001-004

Date Collected: 03/29/22
Time Collected: 9:47
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/31/22		Preparation Date: 03/30/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 03/31/22		Preparation Date: 03/31/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.5	1.0	mg/kg	
Barium	28.5	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	1.1	0.5	mg/kg	
Calcium	91,700	50	mg/kg	
Chromium	14.2	0.5	mg/kg	
Cobalt	8.6	0.5	mg/kg	
Copper	19.8	0.5	mg/kg	
Iron	16,200	5.0	mg/kg	
Lead	9.9	0.5	mg/kg	
Magnesium	47,600	50	mg/kg	
Manganese	397	0.5	mg/kg	
Nickel	21.6	0.5	mg/kg	
Potassium	1,760	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	711	50	mg/kg	
Thallium	1.1	1.0	mg/kg	
Vanadium	20.0	1.0	mg/kg	
Zinc	37.0	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 17-04 (5-10)
Sample No: 22-2001-004

Date Collected: 03/29/22
Time Collected: 9:47
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/04/22		Preparation Date: 04/01/22		
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	0.052	0.005	mg/L	
Iron	48.0	0.1	mg/L	
Lead	0.019	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/01/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	91.5	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	95.1	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	98.4	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	112.8	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	70.7	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	60.3	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	89.4	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	78.1	35 -	105
8270C	Phenol-d5 (surr)	%R:	79.4	50 -	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 18-01 (0-1)
Sample No: 22-2001-037

Date Collected: 03/29/22
Time Collected: 12:39
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 03/31/22				
Total Solids	87.67		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 18-01 (0-1)
Sample No: 22-2001-037

Date Collected: 03/29/22
Time Collected: 12:39
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/04/22				
Preparation Date: 03/31/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 18-01 (0-1)
Sample No: 22-2001-037

Date Collected: 03/29/22
Time Collected: 12:39
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/04/22		Preparation Date: 03/31/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 18-01 (0-1)
Sample No: 22-2001-037

Date Collected: 03/29/22
Time Collected: 12:39
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/04/22		Preparation Date: 03/31/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/04/22		Preparation Date: 04/01/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.4	1.0	mg/kg	
Barium	81.1	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	52,900	50	mg/kg	
Chromium	20.7	0.5	mg/kg	
Cobalt	9.7	0.5	mg/kg	
Copper	25.0	0.5	mg/kg	
Iron	20,800	5.0	mg/kg	
Lead	18.8	0.5	mg/kg	
Magnesium	33,500	50	mg/kg	
Manganese	355	0.5	mg/kg	
Nickel	24.4	0.5	mg/kg	
Potassium	1,400	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	28.5	1.0	mg/kg	
Zinc	48.0	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 18-01 (0-1)
Sample No: 22-2001-037

Date Collected: 03/29/22
Time Collected: 12:39
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 03/31/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/07/22 10:40				
pH @ 25°C, 1:2	8.19		Units	
TCLP Extraction Method: 1311				
Analysis Date: 03/31/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/04/22				
Preparation Method 3010A				
Preparation Date: 04/01/22				
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	0.008	0.005	mg/L	
Manganese	7.4	0.1	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: 04/04/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 03/31/22				
SPLP Metals Extraction	Complete			
Arsenic	0.015	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 18-01 (0-1)
Sample No: 22-2001-037

Date Collected: 03/29/22
Time Collected: 12:39
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/05/22		Preparation Date: 04/01/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	0.004	0.004	mg/L	
Cadmium	0.008	0.005	mg/L	
Chromium	0.119	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.113	0.005	mg/L	
Iron	116	0.1	mg/L	
Lead	0.048	0.005	mg/L	
Manganese	1.6	0.1	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/04/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	88.6	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	94.7	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	101.1	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	107.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	75	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	63.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	95	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	79	35 -	105
8270C	Phenol-d5 (surr)	%R:	80.5	50 -	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 18-02 (0-1)
Sample No: 22-2001-036

Date Collected: 03/29/22
Time Collected: 12:38
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 03/31/22				
Total Solids	83.51		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 18-02 (0-1)
Sample No: 22-2001-036

Date Collected: 03/29/22
Time Collected: 12:38
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/04/22				
Preparation Date: 03/31/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 18-02 (0-1)
Sample No: 22-2001-036

Date Collected: 03/29/22
Time Collected: 12:38
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/04/22		Preparation Date: 03/31/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 18-02 (0-1)
Sample No: 22-2001-036

Date Collected: 03/29/22
Time Collected: 12:38
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/04/22		Preparation Date: 03/31/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/04/22		Preparation Date: 03/31/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.9	1.0	mg/kg	
Barium	62.9	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	11,300	50	mg/kg	
Chromium	15.3	0.5	mg/kg	
Cobalt	8.3	0.5	mg/kg	
Copper	13.7	0.5	mg/kg	
Iron	18,200	5.0	mg/kg	
Lead	10.8	0.5	mg/kg	
Magnesium	7,230	50	mg/kg	
Manganese	427	0.5	mg/kg	
Nickel	16.0	0.5	mg/kg	
Potassium	860	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,650	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	27.3	1.0	mg/kg	
Zinc	36.3	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 18-02 (0-1)
Sample No: 22-2001-036

Date Collected: 03/29/22
Time Collected: 12:38
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/05/22		Preparation Date: 04/01/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	0.007	0.005	mg/L	
Chromium	0.098	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.090	0.005	mg/L	
Iron	99.2	0.1	mg/L	
Lead	0.039	0.005	mg/L	
Manganese	0.6	0.1	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/04/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	88.2	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	93.8	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	102.2	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	91.2	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	60.5	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	52.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	84	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	67	35 -	105
8270C	Phenol-d5 (surr)	%R:	68	50 -	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 03/29/22

Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08

Time Collected: 12:16

Sample ID: 22-01 (0-4)

Date Received: 03/30/22

Sample No: 22-2001-031

Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 03/31/22				
Total Solids	81.26		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 22-01 (0-4)
Sample No: 22-2001-031

Date Collected: 03/29/22
Time Collected: 12:16
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/04/22				
Preparation Date: 03/31/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 22-01 (0-4)
Sample No: 22-2001-031

Date Collected: 03/29/22
Time Collected: 12:16
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/04/22		Preparation Date: 03/31/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 22-01 (0-4)
Sample No: 22-2001-031

Date Collected: 03/29/22
Time Collected: 12:16
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/04/22		Preparation Date: 03/31/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/04/22		Preparation Date: 03/31/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.9	1.0	mg/kg	
Barium	98.7	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	11,600	50	mg/kg	
Chromium	23.3	0.5	mg/kg	
Cobalt	12.5	0.5	mg/kg	
Copper	27.2	0.5	mg/kg	
Iron	27,800	5.0	mg/kg	
Lead	14.4	0.5	mg/kg	
Magnesium	10,200	50	mg/kg	
Manganese	494	0.5	mg/kg	
Nickel	34.3	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	721	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	33.4	1.0	mg/kg	
Zinc	56.8	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 22-01 (0-4)
Sample No: 22-2001-031

Date Collected: 03/29/22
Time Collected: 12:16
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 03/31/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/07/22 10:40				
pH @ 25°C, 1:2	8.63		Units	
TCLP Extraction Method: 1311				
Analysis Date: 03/31/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/04/22				
Preparation Method 3010A				
Preparation Date: 04/01/22				
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	11.2	0.1	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: 04/04/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 03/31/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 22-01 (0-4)
Sample No: 22-2001-031

Date Collected: 03/29/22
Time Collected: 12:16
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/05/22		Preparation Date: 04/01/22		
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	0.019	0.005	mg/L	
Iron	15.0	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/04/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	89.2	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	94.8	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	100.4	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	114	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	67	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	61	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	90	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	60	35 -	105
8270C	Phenol-d5 (surr)	%R:	80	50 -	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 22-01 (4-8)
Sample No: 22-2001-032

Date Collected: 03/29/22
Time Collected: 12:17
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 03/31/22				
Total Solids	86.62		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 03/29/22

Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08

Time Collected: 12:17

Sample ID: 22-01 (4-8)

Date Received: 03/30/22

Sample No: 22-2001-032

Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/04/22				
Preparation Date: 03/31/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 22-01 (4-8)
Sample No: 22-2001-032

Date Collected: 03/29/22
Time Collected: 12:17
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/04/22		Preparation Date: 03/31/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 22-01 (4-8)
Sample No: 22-2001-032

Date Collected: 03/29/22
Time Collected: 12:17
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/04/22				Preparation Date: 03/31/22
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/04/22				Preparation Date: 03/31/22
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.8	1.0	mg/kg	
Barium	30.3	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	77,600	50	mg/kg	
Chromium	13.7	0.5	mg/kg	
Cobalt	8.1	0.5	mg/kg	
Copper	20.0	0.5	mg/kg	
Iron	21,700	5.0	mg/kg	
Lead	9.0	0.5	mg/kg	
Magnesium	40,300	50	mg/kg	
Manganese	348	0.5	mg/kg	
Nickel	22.5	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	207	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	23.6	1.0	mg/kg	
Zinc	63.0	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 22-01 (4-8)
Sample No: 22-2001-032

Date Collected: 03/29/22
Time Collected: 12:17
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/05/22		Preparation Date: 04/01/22		
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	2.0	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/04/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	88.2	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	93.9	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	100.7	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	115	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	68	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	54.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	85	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 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 22-01 (8-12)
Sample No: 22-2001-033

Date Collected: 03/29/22
Time Collected: 12:18
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 03/31/22				
Total Solids	87.34		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/01/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 22-01 (8-12)
Sample No: 22-2001-033

Date Collected: 03/29/22
Time Collected: 12:18
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/01/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/04/22				
Preparation Date: 03/31/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 22-01 (8-12)
Sample No: 22-2001-033

Date Collected: 03/29/22
Time Collected: 12:18
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/04/22		Preparation Date: 03/31/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 22-01 (8-12)
Sample No: 22-2001-033

Date Collected: 03/29/22
Time Collected: 12:18
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/04/22		Preparation Date: 03/31/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/04/22		Preparation Date: 03/31/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.1	1.0	mg/kg	
Barium	45.4	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	80,400	50	mg/kg	
Chromium	15.5	0.5	mg/kg	
Cobalt	7.5	0.5	mg/kg	
Copper	20.8	0.5	mg/kg	
Iron	18,500	5.0	mg/kg	
Lead	10.3	0.5	mg/kg	
Magnesium	42,100	50	mg/kg	
Manganese	445	0.5	mg/kg	
Nickel	23.4	0.5	mg/kg	
Potassium	2,000	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	203	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	20.0	1.0	mg/kg	
Zinc	39.4	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 22-01 (8-12)
Sample No: 22-2001-033

Date Collected: 03/29/22
Time Collected: 12:18
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/05/22		Preparation Date: 04/01/22		
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	2.2	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/04/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	82	*	86 - 117
5035A/8260B	d8-Toluene (Surr)	%R:	93.5		90 - 110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	99.6		77 - 120
8270C	2,4,6-Tribromophenol (Surr)	%R:	118.5		59 - 131
8270C	2-Fluorobiphenyl (Surr)	%R:	75		45 - 112
8270C	2-Fluorophenol (Surr)	%R:	58		41 - 84
8270C	d14-Terphenyl (Surr)	%R:	87		56 - 120
8270C	d5-Nitrobenzene (Surr)	%R:	75		35 - 105
8270C	Phenol-d5 (surr)	%R:	76.5		50 - 100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 03/29/22

Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08

Time Collected: 11:05

Sample ID: 22-04 (0-4)

Date Received: 03/30/22

Sample No: 22-2001-022

Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 03/30/22				
Total Solids	81.90		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 22-04 (0-4)
Sample No: 22-2001-022

Date Collected: 03/29/22
Time Collected: 11:05
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/01/22				
Preparation Date: 03/31/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 22-04 (0-4)
Sample No: 22-2001-022

Date Collected: 03/29/22
Time Collected: 11:05
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/01/22		Preparation Date: 03/31/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 22-04 (0-4)
Sample No: 22-2001-022

Date Collected: 03/29/22
Time Collected: 11:05
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/01/22		Preparation Date: 03/31/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/04/22		Preparation Date: 03/31/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.9	1.0	mg/kg	
Barium	102	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	4,960	50	mg/kg	
Chromium	21.7	0.5	mg/kg	
Cobalt	10.1	0.5	mg/kg	
Copper	17.2	0.5	mg/kg	
Iron	21,800	5.0	mg/kg	
Lead	14.0	0.5	mg/kg	
Magnesium	4,170	50	mg/kg	
Manganese	279	0.5	mg/kg	
Nickel	21.4	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	1,510	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	34.0	1.0	mg/kg	
Zinc	48.3	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 22-04 (0-4)
Sample No: 22-2001-022

Date Collected: 03/29/22
Time Collected: 11:05
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/05/22		Preparation Date: 04/01/22		
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	0.059	0.005	mg/L	
Iron	55.3	0.1	mg/L	
Lead	0.032	0.005	mg/L	
Manganese	0.6	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/04/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	89.4	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	94.3	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	99.7	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	113.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	68	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	61	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	95	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	63	35 -	105
8270C	Phenol-d5 (surr)	%R:	78	50 -	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 22-04 (4-8)
Sample No: 22-2001-023

Date Collected: 03/29/22
Time Collected: 11:06
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 03/31/22				
Total Solids	86.16		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 22-04 (4-8)
Sample No: 22-2001-023

Date Collected: 03/29/22
Time Collected: 11:06
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/01/22				
Preparation Date: 03/31/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 22-04 (4-8)
Sample No: 22-2001-023

Date Collected: 03/29/22
Time Collected: 11:06
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/01/22		Preparation Date: 03/31/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 22-04 (4-8)
Sample No: 22-2001-023

Date Collected: 03/29/22
Time Collected: 11:06
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/01/22		Preparation Date: 03/31/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/04/22		Preparation Date: 03/31/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.5	1.0	mg/kg	
Barium	21.8	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	134,000	50	mg/kg	
Chromium	14.2	0.5	mg/kg	
Cobalt	5.0	0.5	mg/kg	
Copper	13.1	0.5	mg/kg	
Iron	12,000	5.0	mg/kg	
Lead	5.3	0.5	mg/kg	
Magnesium	66,400	50	mg/kg	
Manganese	260	0.5	mg/kg	
Nickel	15.0	0.5	mg/kg	
Potassium	1,450	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	414	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	15.2	1.0	mg/kg	
Zinc	27.6	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 22-04 (4-8)
Sample No: 22-2001-023

Date Collected: 03/29/22
Time Collected: 11:06
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 03/31/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/06/22 9:15				
pH @ 25°C, 1:2	8.11		Units	
TCLP Extraction Method: 1311				
Analysis Date: 03/30/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/01/22				
Preparation Method 3010A Preparation Date: 03/31/22				
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	2.7	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.1	0.1	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: 04/01/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 03/30/22				
SPLP Metals Extraction	Complete			
Arsenic	0.050	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 22-04 (4-8)
Sample No: 22-2001-023

Date Collected: 03/29/22
Time Collected: 11:06
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/05/22		Preparation Date: 04/01/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	0.006	0.004	mg/L	
Cadmium	0.014	0.005	mg/L	
Chromium	0.170	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.224	0.005	mg/L	
Iron	177	0.1	mg/L	
Lead	0.056	0.005	mg/L	
Manganese	1.3	0.1	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/01/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	86.9	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R:	93.8	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R:	100.9	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R:	114	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R:	69	45 - 112	
8270C	2-Fluorophenol (Surr)	%R:	62.5	41 - 84	
8270C	d14-Terphenyl (Surr)	%R:	89	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R:	77	35 - 105	
8270C	Phenol-d5 (surr)	%R:	79.5	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 03/29/22

Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08

Time Collected: 11:07

Sample ID: 22-04 (8-12)

Date Received: 03/30/22

Sample No: 22-2001-024

Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 03/31/22				
Total Solids	88.63		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/01/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 22-04 (8-12)
Sample No: 22-2001-024

Date Collected: 03/29/22
Time Collected: 11:07
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/01/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/01/22				
Preparation Date: 03/31/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 22-04 (8-12)
Sample No: 22-2001-024

Date Collected: 03/29/22
Time Collected: 11:07
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/01/22		Preparation Date: 03/31/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 22-04 (8-12)
Sample No: 22-2001-024

Date Collected: 03/29/22
Time Collected: 11:07
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/01/22		Preparation Date: 03/31/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/04/22		Preparation Date: 03/31/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.9	1.0	mg/kg	
Barium	27.3	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	80,600	50	mg/kg	
Chromium	14.9	0.5	mg/kg	
Cobalt	7.6	0.5	mg/kg	
Copper	18.5	0.5	mg/kg	
Iron	18,200	5.0	mg/kg	
Lead	9.0	0.5	mg/kg	
Magnesium	42,400	50	mg/kg	
Manganese	348	0.5	mg/kg	
Nickel	21.8	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	277	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	19.5	1.0	mg/kg	
Zinc	37.7	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 22-04 (8-12)
Sample No: 22-2001-024

Date Collected: 03/29/22
Time Collected: 11:07
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/05/22		Preparation Date: 04/01/22		
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	9.5	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/01/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	87.5	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	92.9	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	98.9	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	113.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	72	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	57.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	86	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	76	35 -	105
8270C	Phenol-d5 (surr)	%R:	75	50 -	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 03/29/22

Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08

Time Collected: 10:29

Sample ID: 22-07 (0-4)

Date Received: 03/30/22

Sample No: 22-2001-013

Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 03/30/22				
Total Solids	90.32		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 22-07 (0-4)
Sample No: 22-2001-013

Date Collected: 03/29/22
Time Collected: 10:29
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/01/22				
Preparation Date: 03/30/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 22-07 (0-4)
Sample No: 22-2001-013

Date Collected: 03/29/22
Time Collected: 10:29
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/01/22		Preparation Date: 03/30/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 22-07 (0-4)
Sample No: 22-2001-013

Date Collected: 03/29/22
Time Collected: 10:29
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/01/22		Preparation Date: 03/30/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 03/31/22		Preparation Date: 03/31/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	1.9	1.0	mg/kg	
Barium	27.4	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	0.7	0.5	mg/kg	
Calcium	35,300	50	mg/kg	
Chromium	9.3	0.5	mg/kg	
Cobalt	4.3	0.5	mg/kg	
Copper	11.2	0.5	mg/kg	
Iron	11,300	5.0	mg/kg	
Lead	5.9	0.5	mg/kg	
Magnesium	18,000	50	mg/kg	
Manganese	254	0.5	mg/kg	
Nickel	10.2	0.5	mg/kg	
Potassium	611	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	424	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	25.6	1.0	mg/kg	
Zinc	20.3	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 22-07 (0-4)
Sample No: 22-2001-013

Date Collected: 03/29/22
Time Collected: 10:29
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 03/31/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/05/22 14:05				
pH @ 25°C, 1:2	8.38		Units	
TCLP Extraction Method: 1311				
Analysis Date: 03/30/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/01/22				
Preparation Method 3010A				
Preparation Date: 03/31/22				
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	3.4	0.1	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: 04/01/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 03/30/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 22-07 (0-4)
Sample No: 22-2001-013

Date Collected: 03/29/22
Time Collected: 10:29
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/04/22		Preparation Date: 04/01/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.009	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.014	0.005	mg/L	
Iron	9.1	0.1	mg/L	
Lead	0.005	0.005	mg/L	
Manganese	0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/01/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	93.2	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	95.4	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	98.3	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	104	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	57	45	112
8270C	2-Fluorophenol (Surr)	%R:	56.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	82	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	59	35	105
8270C	Phenol-d5 (surr)	%R:	73.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 22-07 (4-8)
Sample No: 22-2001-014

Date Collected: 03/29/22
Time Collected: 10:30
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 03/30/22				
Total Solids	86.65		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 22-07 (4-8)
Sample No: 22-2001-014

Date Collected: 03/29/22
Time Collected: 10:30
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/08/22				
Preparation Date: 03/30/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 22-07 (4-8)
Sample No: 22-2001-014

Date Collected: 03/29/22
Time Collected: 10:30
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/08/22		Preparation Date: 03/30/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 22-07 (4-8)
Sample No: 22-2001-014

Date Collected: 03/29/22
Time Collected: 10:30
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/08/22				Preparation Date: 03/30/22
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 03/31/22				Preparation Date: 03/31/22
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.6	1.0	mg/kg	
Barium	31.9	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	1.1	0.5	mg/kg	
Calcium	75,100	50	mg/kg	
Chromium	14.7	0.5	mg/kg	
Cobalt	6.5	0.5	mg/kg	
Copper	16.6	0.5	mg/kg	
Iron	16,200	5.0	mg/kg	
Lead	8.6	0.5	mg/kg	
Magnesium	39,000	50	mg/kg	
Manganese	307	0.5	mg/kg	
Nickel	20.1	0.5	mg/kg	
Potassium	1,840	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	19.2	1.0	mg/kg	
Zinc	37.2	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC. **Date Collected:** 03/29/22
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08 **Time Collected:** 10:30
Sample ID: 22-07 (4-8) **Date Received:** 03/30/22
Sample No: 22-2001-014 **Date Reported:** 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 03/31/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/05/22 14:05				
pH @ 25°C, 1:2	8.30		Units	
TCLP Extraction Method: 1311				
Analysis Date: 03/30/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/01/22				
Preparation Method 3010A				
Preparation Date: 03/31/22				
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	2.3	0.1	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: 03/31/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 03/30/22				
SPLP Metals Extraction	Complete			
Arsenic	0.047	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 22-07 (4-8)
Sample No: 22-2001-014

Date Collected: 03/29/22
Time Collected: 10:30
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/04/22		Preparation Date: 04/01/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	0.004	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	0.178	0.005	mg/L	
Iron	160	0.1	mg/L	
Lead	0.074	0.005	mg/L	
Manganese	1.5	0.1	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/01/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	92.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	95.2	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	98.6	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	109	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	64	45	112
8270C	2-Fluorophenol (Surr)	%R:	55.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	95	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	74	35	105
8270C	Phenol-d5 (surr)	%R:	68.5	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 03/29/22

Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08

Time Collected: 10:31

Sample ID: 22-07 (8-12)

Date Received: 03/30/22

Sample No: 22-2001-015

Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 03/30/22				
Total Solids	86.98		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 22-07 (8-12)
Sample No: 22-2001-015

Date Collected: 03/29/22
Time Collected: 10:31
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/01/22				
Preparation Date: 03/30/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 22-07 (8-12)
Sample No: 22-2001-015

Date Collected: 03/29/22
Time Collected: 10:31
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/01/22		Preparation Date: 03/30/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 22-07 (8-12)
Sample No: 22-2001-015

Date Collected: 03/29/22
Time Collected: 10:31
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/01/22				Preparation Date: 03/30/22
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 03/31/22				Preparation Date: 03/31/22
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.0	1.0	mg/kg	
Barium	29.1	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	1.2	0.5	mg/kg	
Calcium	70,400	50	mg/kg	
Chromium	15.5	0.5	mg/kg	
Cobalt	8.5	0.5	mg/kg	
Copper	17.8	0.5	mg/kg	
Iron	16,700	5.0	mg/kg	
Lead	8.8	0.5	mg/kg	
Magnesium	35,500	50	mg/kg	
Manganese	341	0.5	mg/kg	
Nickel	21.5	0.5	mg/kg	
Potassium	1,960	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	157	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	19.1	1.0	mg/kg	
Zinc	35.4	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 22-07 (8-12)
Sample No: 22-2001-015

Date Collected: 03/29/22
Time Collected: 10:31
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 03/31/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/05/22 14:05				
pH @ 25°C, 1:2	8.61		Units	
TCLP Extraction Method: 1311				
Analysis Date: 03/30/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/01/22				
Preparation Method 3010A				
Preparation Date: 03/31/22				
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	1.8	0.1	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: 03/31/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 03/30/22				
SPLP Metals Extraction	Complete			
Arsenic	0.016	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 22-07 (8-12)
Sample No: 22-2001-015

Date Collected: 03/29/22
Time Collected: 10:31
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/04/22		Preparation Date: 04/01/22		
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	0.072	0.005	mg/L	
Iron	64.1	0.1	mg/L	
Lead	0.030	0.005	mg/L	
Manganese	0.6	0.1	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/01/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	91.6	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	94.2	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	98.5	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	105	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	67	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:	81.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-03 (0-5)
Sample No: 22-2001-042

Date Collected: 03/29/22
Time Collected: 13:03
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 03/31/22				
Total Solids	81.10		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-03 (0-5)
Sample No: 22-2001-042

Date Collected: 03/29/22
Time Collected: 13:03
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/05/22				
Preparation Date: 04/04/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-03 (0-5)
Sample No: 22-2001-042

Date Collected: 03/29/22
Time Collected: 13:03
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/05/22		Preparation Date: 04/04/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-03 (0-5)
Sample No: 22-2001-042

Date Collected: 03/29/22
Time Collected: 13:03
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/05/22				Preparation Date: 04/04/22
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/04/22				Preparation Date: 04/01/22
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.6	1.0	mg/kg	
Barium	98.9	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	21.0	0.5	mg/kg	
Cobalt	12.7	0.5	mg/kg	
Copper	24.9	0.5	mg/kg	
Iron	23,900	5.0	mg/kg	
Lead	14.6	0.5	mg/kg	
Magnesium	27,200	50	mg/kg	
Manganese	628	0.5	mg/kg	
Nickel	30.1	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	1,190	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	30.5	1.0	mg/kg	
Zinc	43.3	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-03 (0-5)
Sample No: 22-2001-042

Date Collected: 03/29/22
Time Collected: 13:03
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/01/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/12/22 10:45				
pH @ 25°C, 1:2	8.51		Units	
TCLP Extraction Method: 1311				
Analysis Date: 03/31/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/04/22				
Preparation Method 3010A				
Preparation Date: 04/01/22				
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	11.9	0.1	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: 04/04/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 03/31/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-03 (0-5)
Sample No: 22-2001-042

Date Collected: 03/29/22
Time Collected: 13:03
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/05/22		Preparation Date: 04/04/22		
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	0.013	0.005	mg/L	
Iron	14.2	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/04/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary: Surrogate Recovery				%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	88.1	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	93.3	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	99.9	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	114.4	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	64.4	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	59	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	90.4	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	62.8	35 -	105
8270C	Phenol-d5 (surr)	%R:	79.4	50 -	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 03/29/22

Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08

Time Collected: 13:04

Sample ID: 30-03 (5-10)

Date Received: 03/30/22

Sample No: 22-2001-043

Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 03/31/22				
Total Solids	85.93		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-03 (5-10)
Sample No: 22-2001-043

Date Collected: 03/29/22
Time Collected: 13:04
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/05/22				
Preparation Date: 04/04/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-03 (5-10)
Sample No: 22-2001-043

Date Collected: 03/29/22
Time Collected: 13:04
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/05/22		Preparation Date: 04/04/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-03 (5-10)
Sample No: 22-2001-043

Date Collected: 03/29/22
Time Collected: 13:04
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/05/22		Preparation Date: 04/04/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/04/22		Preparation Date: 04/01/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.7	1.0	mg/kg	
Barium	31.0	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	88,700	50	mg/kg	
Chromium	16.4	0.5	mg/kg	
Cobalt	8.6	0.5	mg/kg	
Copper	20.9	0.5	mg/kg	
Iron	18,400	5.0	mg/kg	
Lead	9.7	0.5	mg/kg	
Magnesium	44,100	50	mg/kg	
Manganese	345	0.5	mg/kg	
Nickel	22.4	0.5	mg/kg	
Potassium	2,200	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	544	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	21.8	1.0	mg/kg	
Zinc	41.3	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-03 (5-10)
Sample No: 22-2001-043

Date Collected: 03/29/22
Time Collected: 13:04
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/05/22		Preparation Date: 04/04/22		
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	0.011	0.005	mg/L	
Iron	11.8	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/04/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	87.2	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	93.4	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	100.3	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	118	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	67.8	45	112
8270C	2-Fluorophenol (Surr)	%R:	60.1	41	84
8270C	d14-Terphenyl (Surr)	%R:	86.5	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	76.3	35	105
8270C	Phenol-d5 (surr)	%R:	82.7	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-06 (0-5)
Sample No: 22-2001-048

Date Collected: 03/29/22
Time Collected: 13:43
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 03/31/22				
Total Solids	78.39		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/01/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-06 (0-5)
Sample No: 22-2001-048

Date Collected: 03/29/22
Time Collected: 13:43
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/01/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/05/22				
Preparation Date: 04/04/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-06 (0-5)
Sample No: 22-2001-048

Date Collected: 03/29/22
Time Collected: 13:43
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/05/22		Preparation Date: 04/04/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-06 (0-5)
Sample No: 22-2001-048

Date Collected: 03/29/22
Time Collected: 13:43
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/05/22		Preparation Date: 04/04/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/04/22		Preparation Date: 04/01/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.6	1.0	mg/kg	
Barium	66.5	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	49,000	50	mg/kg	
Chromium	20.7	0.5	mg/kg	
Cobalt	7.8	0.5	mg/kg	
Copper	19.9	0.5	mg/kg	
Iron	22,200	5.0	mg/kg	
Lead	11.1	0.5	mg/kg	
Magnesium	25,900	50	mg/kg	
Manganese	332	0.5	mg/kg	
Nickel	21.9	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	1,580	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	33.2	1.0	mg/kg	
Zinc	44.8	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-06 (0-5)
Sample No: 22-2001-048

Date Collected: 03/29/22
Time Collected: 13:43
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/01/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/14/22 9:30				
pH @ 25°C, 1:2	8.84		Units	
TCLP Extraction Method: 1311				
Analysis Date: 03/31/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/04/22				
Preparation Method 3010A				
Preparation Date: 04/01/22				
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	< 0.1	0.1	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: 04/04/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 03/31/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-06 (0-5)
Sample No: 22-2001-048

Date Collected: 03/29/22
Time Collected: 13:43
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/05/22		Preparation Date: 04/04/22		
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	0.035	0.005	mg/L	
Iron	40.7	0.1	mg/L	
Lead	0.011	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/04/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	89	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	93.6	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	99.5	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	85.2	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	53.2	45	112
8270C	2-Fluorophenol (Surr)	%R:	52.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	70	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	64.3	35	105
8270C	Phenol-d5 (surr)	%R:	66.2	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-06 (5-10)
Sample No: 22-2001-049

Date Collected: 03/29/22
Time Collected: 13:44
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 03/31/22				
Total Solids	84.91		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/01/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-06 (5-10)
Sample No: 22-2001-049

Date Collected: 03/29/22
Time Collected: 13:44
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/01/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/05/22				
Preparation Date: 04/04/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-06 (5-10)
Sample No: 22-2001-049

Date Collected: 03/29/22
Time Collected: 13:44
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C		Preparation Method 3540C	
Analysis Date: 04/05/22			Preparation Date: 04/04/22	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-06 (5-10)
Sample No: 22-2001-049

Date Collected: 03/29/22
Time Collected: 13:44
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/05/22		Preparation Date: 04/04/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/04/22		Preparation Date: 04/01/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.2	1.0	mg/kg	
Barium	33.6	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	82,500	50	mg/kg	
Chromium	16.7	0.5	mg/kg	
Cobalt	10.4	0.5	mg/kg	
Copper	22.9	0.5	mg/kg	
Iron	19,400	5.0	mg/kg	
Lead	10.4	0.5	mg/kg	
Magnesium	41,600	50	mg/kg	
Manganese	407	0.5	mg/kg	
Nickel	25.0	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	560	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	25.4	1.0	mg/kg	
Zinc	42.4	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-06 (5-10)
Sample No: 22-2001-049

Date Collected: 03/29/22
Time Collected: 13:44
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/05/22		Preparation Date: 04/04/22		
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	0.043	0.005	mg/L	
Iron	50.0	0.1	mg/L	
Lead	0.018	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/05/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	87.9	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	94.1	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	101.2	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	93.6	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	59.3	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	57.1	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	57.1	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	70.6	35 -	105
8270C	Phenol-d5 (surr)	%R:	72.2	50 -	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-07 (0-5)
Sample No: 22-2001-050

Date Collected: 03/29/22
Time Collected: 13:50
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 03/31/22				
Total Solids	78.28		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/01/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-07 (0-5)
Sample No: 22-2001-050

Date Collected: 03/29/22
Time Collected: 13:50
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/01/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/05/22				
Preparation Date: 04/04/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-07 (0-5)
Sample No: 22-2001-050

Date Collected: 03/29/22
Time Collected: 13:50
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/05/22		Preparation Date: 04/04/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-07 (0-5)
Sample No: 22-2001-050

Date Collected: 03/29/22
Time Collected: 13:50
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/05/22		Preparation Date: 04/04/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/04/22		Preparation Date: 04/01/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.6	1.0	mg/kg	
Barium	97.2	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	64,900	50	mg/kg	
Chromium	20.1	0.5	mg/kg	
Cobalt	10.1	0.5	mg/kg	
Copper	21.9	0.5	mg/kg	
Iron	21,100	5.0	mg/kg	
Lead	9.5	0.5	mg/kg	
Magnesium	41,400	50	mg/kg	
Manganese	532	0.5	mg/kg	
Nickel	25.2	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	466	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	27.5	1.0	mg/kg	
Zinc	42.5	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-07 (0-5)
Sample No: 22-2001-050

Date Collected: 03/29/22
Time Collected: 13:50
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/05/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/14/22 9:30				
pH @ 25°C, 1:2	7.98		Units	
TCLP Extraction Method: 1311				
Analysis Date: 03/31/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/04/22				
Preparation Method 3010A				
Preparation Date: 04/01/22				
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	0.6	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	6.4	0.1	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: 04/04/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 03/31/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-07 (0-5)
Sample No: 22-2001-050

Date Collected: 03/29/22
Time Collected: 13:50
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/05/22		Preparation Date: 04/04/22		
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	0.020	0.005	mg/L	
Iron	24.4	0.1	mg/L	
Lead	0.007	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/05/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	88.4	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	94	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	101.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	90.8	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	52.4	45	112
8270C	2-Fluorophenol (Surr)	%R:	51.2	41	84
8270C	d14-Terphenyl (Surr)	%R:	75.3	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	56.5	35	105
8270C	Phenol-d5 (surr)	%R:	66.8	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-07 (5-10)
Sample No: 22-2001-051

Date Collected: 03/29/22
Time Collected: 13:51
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 03/31/22				
Total Solids	84.42		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/01/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-07 (5-10)
Sample No: 22-2001-051

Date Collected: 03/29/22
Time Collected: 13:51
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/01/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/06/22				
Preparation Date: 04/05/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-07 (5-10)
Sample No: 22-2001-051

Date Collected: 03/29/22
Time Collected: 13:51
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-07 (5-10)
Sample No: 22-2001-051

Date Collected: 03/29/22
Time Collected: 13:51
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/04/22		Preparation Date: 04/01/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.4	1.0	mg/kg	
Barium	47.2	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	85,700	50	mg/kg	
Chromium	17.8	0.5	mg/kg	
Cobalt	8.0	0.5	mg/kg	
Copper	19.9	0.5	mg/kg	
Iron	19,800	5.0	mg/kg	
Lead	9.2	0.5	mg/kg	
Magnesium	45,800	50	mg/kg	
Manganese	440	0.5	mg/kg	
Nickel	23.8	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	281	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	22.2	1.0	mg/kg	
Zinc	47.1	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-07 (5-10)
Sample No: 22-2001-051

Date Collected: 03/29/22
Time Collected: 13:51
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/05/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/14/22 9:30				
pH @ 25°C, 1:2	8.35		Units	
TCLP Extraction Method: 1311				
Analysis Date: 03/31/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/05/22				
Preparation Method 3010A				
Preparation Date: 04/04/22				
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	1.1	0.1	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: 04/04/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 03/31/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-07 (5-10)
Sample No: 22-2001-051

Date Collected: 03/29/22
Time Collected: 13:51
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/05/22		Preparation Date: 04/04/22		
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	5.2	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/05/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary: Surrogate Recovery				%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	86.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	94.3	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	100	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	111	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	72	45	112
8270C	2-Fluorophenol (Surr)	%R:	59.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	95	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	78	35	105
8270C	Phenol-d5 (surr)	%R:	79	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-08 (0-5)
Sample No: 22-2001-052

Date Collected: 03/29/22
Time Collected: 13:56
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 03/31/22				
Total Solids	79.55		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/01/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-08 (0-5)
Sample No: 22-2001-052

Date Collected: 03/29/22
Time Collected: 13:56
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/01/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/06/22				
Preparation Date: 04/05/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-08 (0-5)
Sample No: 22-2001-052

Date Collected: 03/29/22
Time Collected: 13:56
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-08 (0-5)
Sample No: 22-2001-052

Date Collected: 03/29/22
Time Collected: 13:56
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/04/22		Preparation Date: 04/01/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.6	1.0	mg/kg	
Barium	105	0.5	mg/kg	
Beryllium	0.9	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	11,700	50	mg/kg	
Chromium	24.9	0.5	mg/kg	
Cobalt	12.0	0.5	mg/kg	
Copper	21.8	0.5	mg/kg	
Iron	26,200	5.0	mg/kg	
Lead	15.3	0.5	mg/kg	
Magnesium	9,170	50	mg/kg	
Manganese	256	0.5	mg/kg	
Nickel	26.3	0.5	mg/kg	
Potassium	1,510	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	42.7	1.0	mg/kg	
Zinc	48.2	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-08 (0-5)
Sample No: 22-2001-052

Date Collected: 03/29/22
Time Collected: 13:56
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/05/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/14/22 9:30				
pH @ 25°C, 1:2	8.16		Units	
TCLP Extraction Method: 1311				
Analysis Date: 03/31/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/05/22				
Preparation Method 3010A				
Preparation Date: 04/04/22				
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	3.4	0.1	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: 04/04/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 03/31/22				
SPLP Metals Extraction	Complete			
Arsenic	0.012	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-08 (0-5)
Sample No: 22-2001-052

Date Collected: 03/29/22
Time Collected: 13:56
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/05/22		Preparation Date: 04/04/22		
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	0.044	0.005	mg/L	
Iron	53.6	0.1	mg/L	
Lead	0.020	0.005	mg/L	
Manganese	0.6	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/05/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary: Surrogate Recovery				%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	88.2	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	93.5	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	101.8	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	120.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	76	45	112
8270C	2-Fluorophenol (Surr)	%R:	58.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	105	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	78	35	105
8270C	Phenol-d5 (surr)	%R:	74.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-08 (5-10)
Sample No: 22-2001-053

Date Collected: 03/29/22
Time Collected: 13:57
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 03/31/22				
Total Solids	76.49		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/01/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-08 (5-10)
Sample No: 22-2001-053

Date Collected: 03/29/22
Time Collected: 13:57
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/01/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/06/22				
Preparation Date: 04/05/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-08 (5-10)
Sample No: 22-2001-053

Date Collected: 03/29/22
Time Collected: 13:57
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-08 (5-10)
Sample No: 22-2001-053

Date Collected: 03/29/22
Time Collected: 13:57
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/04/22		Preparation Date: 04/01/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	10.6	1.0	mg/kg	
Barium	77.6	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	4,040	50	mg/kg	
Chromium	23.8	0.5	mg/kg	
Cobalt	11.3	0.5	mg/kg	
Copper	29.1	0.5	mg/kg	
Iron	33,400	5.0	mg/kg	
Lead	15.8	0.5	mg/kg	
Magnesium	4,730	50	mg/kg	
Manganese	161	0.5	mg/kg	
Nickel	20.3	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	539	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	39.5	1.0	mg/kg	
Zinc	72.0	1.0	mg/kg	



Analytical Report

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Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-08 (5-10)
Sample No: 22-2001-053

Date Collected: 03/29/22
Time Collected: 13:57
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/05/22				
Mercury	0.06	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/14/22 9:30				
pH @ 25°C, 1:2	8.44		Units	
TCLP Extraction Method: 1311				
Analysis Date: 03/31/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/05/22				
Preparation Method 3010A				
Preparation Date: 04/04/22				
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	0.9	0.1	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: 04/04/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 03/31/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-08 (5-10)
Sample No: 22-2001-053

Date Collected: 03/29/22
Time Collected: 13:57
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/05/22		Preparation Date: 04/04/22		
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	0.042	0.005	mg/L	
Iron	43.9	0.1	mg/L	
Lead	0.018	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/05/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	88.9	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	94.6	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	100.1	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	104.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	64	45	112
8270C	2-Fluorophenol (Surr)	%R:	56.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	91	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	67	35	105
8270C	Phenol-d5 (surr)	%R:	72	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 03/29/22

Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08

Time Collected: 14:06

Sample ID: 30-09 (0-5)

Date Received: 03/30/22

Sample No: 22-2001-054

Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 03/31/22				
Total Solids	79.10		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/01/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-09 (0-5)
Sample No: 22-2001-054

Date Collected: 03/29/22
Time Collected: 14:06
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/01/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/06/22				
Preparation Date: 04/05/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-09 (0-5)
Sample No: 22-2001-054

Date Collected: 03/29/22
Time Collected: 14:06
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-09 (0-5)
Sample No: 22-2001-054

Date Collected: 03/29/22
Time Collected: 14:06
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/04/22		Preparation Date: 04/01/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.1	1.0	mg/kg	
Barium	99.6	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	20,800	50	mg/kg	
Chromium	18.0	0.5	mg/kg	
Cobalt	7.4	0.5	mg/kg	
Copper	20.1	0.5	mg/kg	
Iron	16,200	5.0	mg/kg	
Lead	15.7	0.5	mg/kg	
Magnesium	11,700	50	mg/kg	
Manganese	238	0.5	mg/kg	
Nickel	16.7	0.5	mg/kg	
Potassium	1,240	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,520	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	31.7	1.0	mg/kg	
Zinc	64.9	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-09 (0-5)
Sample No: 22-2001-054

Date Collected: 03/29/22
Time Collected: 14:06
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/05/22		Preparation Date: 04/04/22		
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	17.8	0.1	mg/L	
Lead	0.012	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/05/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary: Surrogate Recovery				%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	87.9	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	93.6	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	102.3	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	108	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	73	45	112
8270C	2-Fluorophenol (Surr)	%R:	58	41	84
8270C	d14-Terphenyl (Surr)	%R:	93	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	77	35	105
8270C	Phenol-d5 (surr)	%R:	75	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-09 (5-10)
Sample No: 22-2001-055

Date Collected: 03/29/22
Time Collected: 14:07
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 03/31/22				
Total Solids	73.95		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/01/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-09 (5-10)
Sample No: 22-2001-055

Date Collected: 03/29/22
Time Collected: 14:07
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/01/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/06/22				
Preparation Date: 04/05/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-09 (5-10)
Sample No: 22-2001-055

Date Collected: 03/29/22
Time Collected: 14:07
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-09 (5-10)
Sample No: 22-2001-055

Date Collected: 03/29/22
Time Collected: 14:07
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/04/22		Preparation Date: 04/01/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	1.2	1.0	mg/kg	
Barium	150	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	27,500	50	mg/kg	
Chromium	21.3	0.5	mg/kg	
Cobalt	8.0	0.5	mg/kg	
Copper	26.2	0.5	mg/kg	
Iron	16,200	5.0	mg/kg	
Lead	11.7	0.5	mg/kg	
Magnesium	17,600	50	mg/kg	
Manganese	172	0.5	mg/kg	
Nickel	21.9	0.5	mg/kg	
Potassium	783	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	643	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	26.8	1.0	mg/kg	
Zinc	46.1	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-09 (5-10)
Sample No: 22-2001-055

Date Collected: 03/29/22
Time Collected: 14:07
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/05/22		Preparation Date: 04/04/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.026	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.031	0.005	mg/L	
Iron	16.6	0.1	mg/L	
Lead	0.009	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/05/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary: Surrogate Recovery				%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	88.8	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	94.8	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	101.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	98.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	54	45	112
8270C	2-Fluorophenol (Surr)	%R:	51	41	84
8270C	d14-Terphenyl (Surr)	%R:	84	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	56	35	105
8270C	Phenol-d5 (surr)	%R:	65.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 30-12 (0-5)
Sample No: 22-2117-005

Date Collected: 04/01/22
Time Collected: 9:30
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/04/22				
Total Solids	88.49		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/06/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 30-12 (0-5)
Sample No: 22-2117-005

Date Collected: 04/01/22
Time Collected: 9:30
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/06/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/07/22				
Preparation Date: 04/05/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 30-12 (0-5)
Sample No: 22-2117-005

Date Collected: 04/01/22
Time Collected: 9:30
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/07/22		Preparation Date: 04/05/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 30-12 (0-5)
Sample No: 22-2117-005

Date Collected: 04/01/22
Time Collected: 9:30
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/07/22				Preparation Date: 04/05/22
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/06/22				Preparation Date: 04/05/22
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.3	1.0	mg/kg	
Barium	37.2	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	0.7	0.5	mg/kg	
Calcium	73,600	50	mg/kg	
Chromium	14.5	0.5	mg/kg	
Cobalt	9.8	0.5	mg/kg	
Copper	19.2	0.5	mg/kg	
Iron	17,500	5.0	mg/kg	
Lead	9.5	0.5	mg/kg	
Magnesium	39,100	50	mg/kg	
Manganese	433	0.5	mg/kg	
Nickel	22.7	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	1,100	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	25.4	1.0	mg/kg	
Zinc	37.3	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 30-12 (0-5)
Sample No: 22-2117-005

Date Collected: 04/01/22
Time Collected: 9:30
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/05/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/14/22 9:30				
pH @ 25°C, 1:2	8.67		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/04/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/06/22				
Preparation Method 3010A				
Preparation Date: 04/05/22				
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	1.6	0.1	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: 04/06/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/04/22				
SPLP Metals Extraction	Complete			
Arsenic	0.012	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 30-12 (0-5)
Sample No: 22-2117-005

Date Collected: 04/01/22
Time Collected: 9:30
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/07/22		Preparation Date: 04/05/22		
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	0.042	0.005	mg/L	
Iron	43.1	0.1	mg/L	
Lead	0.015	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/05/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	89.3	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.4	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	114.9	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	108.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	69	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	56.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	87	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	74	35 -	105
8270C	Phenol-d5 (surr)	%R:	74.5	50 -	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 30-12 (5-10)
Sample No: 22-2117-006

Date Collected: 04/01/22
Time Collected: 9:31
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/04/22				
Total Solids	87.38		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/09/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/01/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 9:31

Sample ID: 30-12 (5-10)

Date Received: 04/04/22

Sample No: 22-2117-006

Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/09/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/06/22				
Preparation Date: 04/05/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 30-12 (5-10)
Sample No: 22-2117-006

Date Collected: 04/01/22
Time Collected: 9:31
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 30-12 (5-10)
Sample No: 22-2117-006

Date Collected: 04/01/22
Time Collected: 9:31
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.6	1.0	mg/kg	
Barium	38.2	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	0.7	0.5	mg/kg	
Calcium	77,500	50	mg/kg	
Chromium	16.0	0.5	mg/kg	
Cobalt	10.1	0.5	mg/kg	
Copper	18.4	0.5	mg/kg	
Iron	17,700	5.0	mg/kg	
Lead	8.5	0.5	mg/kg	
Magnesium	39,900	50	mg/kg	
Manganese	396	0.5	mg/kg	
Nickel	22.6	0.5	mg/kg	
Potassium	2,260	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	371	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	20.9	1.0	mg/kg	
Zinc	39.5	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 30-12 (5-10)
Sample No: 22-2117-006

Date Collected: 04/01/22
Time Collected: 9:31
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/07/22		Preparation Date: 04/05/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	3.0	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/05/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	94.4	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.6	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	92	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	70	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	69	45	112
8270C	2-Fluorophenol (Surr)	%R:	63	41	84
8270C	d14-Terphenyl (Surr)	%R:	84	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	72	35	105
8270C	Phenol-d5 (surr)	%R:	74	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 40-01 (0-5)
Sample No: 22-2365-033

Date Collected: 04/08/22
Time Collected: 12:10
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	87.39		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 40-01 (0-5)
Sample No: 22-2365-033

Date Collected: 04/08/22
Time Collected: 12:10
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22				
Preparation Date: 04/20/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 40-01 (0-5)
Sample No: 22-2365-033

Date Collected: 04/08/22
Time Collected: 12:10
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 40-01 (0-5)
Sample No: 22-2365-033

Date Collected: 04/08/22
Time Collected: 12:10
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/25/22		Preparation Date: 04/19/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.0	1.0	mg/kg	
Barium	31.4	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	88,000	50	mg/kg	
Chromium	17.3	0.5	mg/kg	
Cobalt	7.4	0.5	mg/kg	
Copper	27.5	0.5	mg/kg	
Iron	19,600	5.0	mg/kg	
Lead	10.2	0.5	mg/kg	
Magnesium	44,300	50	mg/kg	
Manganese	333	0.5	mg/kg	
Nickel	22.0	0.5	mg/kg	
Potassium	2,540	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	712	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	23.6	1.0	mg/kg	
Zinc	43.0	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 40-01 (0-5)
Sample No: 22-2365-033

Date Collected: 04/08/22
Time Collected: 12:10
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/27/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/28/22 12:45				
pH @ 25°C, 1:2	8.91		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/18/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/26/22				
Preparation Method 3010A				
Preparation Date: 04/21/22				
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	4.1	0.1	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: 05/03/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/18/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 40-01 (0-5)
Sample No: 22-2365-033

Date Collected: 04/08/22
Time Collected: 12:10
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/27/22		Preparation Date: 04/21/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.038	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.045	0.005	mg/L	
Iron	35.5	0.1	mg/L	
Lead	0.016	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/03/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.1	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	107.5	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	126	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	67	45	112
8270C	2-Fluorophenol (Surr)	%R:	63	41	84
8270C	d14-Terphenyl (Surr)	%R:	92	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	84	35	105
8270C	Phenol-d5 (surr)	%R:	78.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 40-01 (5-10)
Sample No: 22-2365-034

Date Collected: 04/08/22
Time Collected: 12:12
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	87.78		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 40-01 (5-10)
Sample No: 22-2365-034

Date Collected: 04/08/22
Time Collected: 12:12
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22				
Preparation Date: 04/20/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 40-01 (5-10)
Sample No: 22-2365-034

Date Collected: 04/08/22
Time Collected: 12:12
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 40-01 (5-10)
Sample No: 22-2365-034

Date Collected: 04/08/22
Time Collected: 12:12
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/25/22		Preparation Date: 04/19/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.7	1.0	mg/kg	
Barium	27.7	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	92,700	50	mg/kg	
Chromium	15.3	0.5	mg/kg	
Cobalt	9.0	0.5	mg/kg	
Copper	20.0	0.5	mg/kg	
Iron	16,000	5.0	mg/kg	
Lead	9.3	0.5	mg/kg	
Magnesium	46,900	50	mg/kg	
Manganese	412	0.5	mg/kg	
Nickel	22.3	0.5	mg/kg	
Potassium	2,500	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	286	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	20.6	1.0	mg/kg	
Zinc	37.8	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 40-01 (5-10)
Sample No: 22-2365-034

Date Collected: 04/08/22
Time Collected: 12:12
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/27/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/28/22 12:45				
pH @ 25°C, 1:2	8.48		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/18/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/26/22				
Preparation Method 3010A				
Preparation Date: 04/21/22				
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	1.6	0.1	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: 05/03/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/18/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 40-01 (5-10)
Sample No: 22-2365-034

Date Collected: 04/08/22
Time Collected: 12:12
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/27/22		Preparation Date: 04/21/22		
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	1.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/03/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	92.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103.5	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	111	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	68	45	112
8270C	2-Fluorophenol (Surr)	%R:	57	41	84
8270C	d14-Terphenyl (Surr)	%R:	87	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	77	35	105
8270C	Phenol-d5 (surr)	%R:	76	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 40-01 (10-15)
Sample No: 22-2365-035

Date Collected: 04/08/22
Time Collected: 12:14
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	89.8		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 40-01 (10-15)
Sample No: 22-2365-035

Date Collected: 04/08/22
Time Collected: 12:14
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22				
Preparation Date: 04/20/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 40-01 (10-15)
Sample No: 22-2365-035

Date Collected: 04/08/22
Time Collected: 12:14
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 40-01 (10-15)
Sample No: 22-2365-035

Date Collected: 04/08/22
Time Collected: 12:14
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/25/22		Preparation Date: 04/19/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.3	1.0	mg/kg	
Barium	28.3	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	92,200	50	mg/kg	
Chromium	14.8	0.5	mg/kg	
Cobalt	9.1	0.5	mg/kg	
Copper	21.3	0.5	mg/kg	
Iron	17,600	5.0	mg/kg	
Lead	9.8	0.5	mg/kg	
Magnesium	47,300	50	mg/kg	
Manganese	417	0.5	mg/kg	
Nickel	22.9	0.5	mg/kg	
Potassium	2,500	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	188	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	19.4	1.0	mg/kg	
Zinc	36.9	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 40-01 (10-15)
Sample No: 22-2365-035

Date Collected: 04/08/22
Time Collected: 12:14
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/27/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/28/22 12:45				
pH @ 25°C, 1:2	8.45		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/18/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/29/22				
Preparation Method 3010A				
Preparation Date: 04/25/22				
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	1.4	0.1	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: 05/03/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/18/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 40-01 (10-15)
Sample No: 22-2365-035

Date Collected: 04/08/22
Time Collected: 12:14
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/27/22		Preparation Date: 04/21/22		
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	1.7	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/03/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	93.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.5	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104.7	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	116	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	68	45	112
8270C	2-Fluorophenol (Surr)	%R:	58.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	91	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 199-014 WO#5 IL 47 Lakewood
Sample ID: 40-01 (15-21)
Sample No: 22-2365-036

Date Collected: 04/08/22
Time Collected: 12:16
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	87.82		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 40-01 (15-21)
Sample No: 22-2365-036

Date Collected: 04/08/22
Time Collected: 12:16
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22				
Preparation Date: 04/20/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 40-01 (15-21)
Sample No: 22-2365-036

Date Collected: 04/08/22
Time Collected: 12:16
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 40-01 (15-21)
Sample No: 22-2365-036

Date Collected: 04/08/22
Time Collected: 12:16
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/25/22		Preparation Date: 04/19/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.9	1.0	mg/kg	
Barium	27.5	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	94,300	50	mg/kg	
Chromium	14.0	0.5	mg/kg	
Cobalt	9.4	0.5	mg/kg	
Copper	22.0	0.5	mg/kg	
Iron	17,500	5.0	mg/kg	
Lead	10.5	0.5	mg/kg	
Magnesium	47,700	50	mg/kg	
Manganese	421	0.5	mg/kg	
Nickel	22.7	0.5	mg/kg	
Potassium	2,440	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	187	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	18.5	1.0	mg/kg	
Zinc	39.6	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 40-01 (15-21)
Sample No: 22-2365-036

Date Collected: 04/08/22
Time Collected: 12:16
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/27/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/28/22 12:45				
pH @ 25°C, 1:2	8.48		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/20/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/29/22				
Preparation Method 3010A				
Preparation Date: 04/25/22				
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	1.6	0.1	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: 05/03/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/20/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 40-01 (15-21)
Sample No: 22-2365-036

Date Collected: 04/08/22
Time Collected: 12:16
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/27/22		Preparation Date: 04/21/22		
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	0.4	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/03/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	93.4	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104.3	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	107.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	71	45	112
8270C	2-Fluorophenol (Surr)	%R:	64	41	84
8270C	d14-Terphenyl (Surr)	%R:	87	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	83	35	105
8270C	Phenol-d5 (surr)	%R:	83	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 40-02 (0-5)
Sample No: 22-2117-007

Date Collected: 04/01/22
Time Collected: 9:49
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/04/22				
Total Solids	74.63		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/06/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 40-02 (0-5)
Sample No: 22-2117-007

Date Collected: 04/01/22
Time Collected: 9:49
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/06/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/06/22				
Preparation Date: 04/05/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 40-02 (0-5)
Sample No: 22-2117-007

Date Collected: 04/01/22
Time Collected: 9:49
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 40-02 (0-5)
Sample No: 22-2117-007

Date Collected: 04/01/22
Time Collected: 9:49
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.2	1.0	mg/kg	
Barium	132	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	0.6	0.5	mg/kg	
Calcium	7,840	50	mg/kg	
Chromium	19.7	0.5	mg/kg	
Cobalt	8.0	0.5	mg/kg	
Copper	20.8	0.5	mg/kg	
Iron	19,300	5.0	mg/kg	
Lead	14.9	0.5	mg/kg	
Magnesium	4,880	50	mg/kg	
Manganese	273	0.5	mg/kg	
Nickel	19.9	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	3,760	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	31.6	1.0	mg/kg	
Zinc	54.5	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 40-02 (0-5)
Sample No: 22-2117-007

Date Collected: 04/01/22
Time Collected: 9:49
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/07/22		Preparation Date: 04/05/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.054	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.038	0.005	mg/L	
Iron	45.6	0.1	mg/L	
Lead	0.017	0.005	mg/L	
Manganese	0.4	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/05/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	87.7	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.3	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	115.2	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	75	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	71	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	63	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	90	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	69	35 -	105
8270C	Phenol-d5 (surr)	%R:	74.5	50 -	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 40-02 (5-10)
Sample No: 22-2117-008

Date Collected: 04/01/22
Time Collected: 9:50
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/04/22				
Total Solids	85.89		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/09/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/01/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 9:50

Sample ID: 40-02 (5-10)

Date Received: 04/04/22

Sample No: 22-2117-008

Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/09/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/06/22				
Preparation Date: 04/05/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 40-02 (5-10)
Sample No: 22-2117-008

Date Collected: 04/01/22
Time Collected: 9:50
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 40-02 (5-10)
Sample No: 22-2117-008

Date Collected: 04/01/22
Time Collected: 9:50
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	< 1.0	1.0	mg/kg	
Barium	33.4	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	0.6	0.5	mg/kg	
Calcium	81,700	50	mg/kg	
Chromium	17.3	0.5	mg/kg	
Cobalt	8.7	0.5	mg/kg	
Copper	19.6	0.5	mg/kg	
Iron	15,100	5.0	mg/kg	
Lead	9.2	0.5	mg/kg	
Magnesium	41,100	50	mg/kg	
Manganese	380	0.5	mg/kg	
Nickel	23.9	0.5	mg/kg	
Potassium	2,360	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	820	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	21.1	1.0	mg/kg	
Zinc	43.1	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 40-02 (5-10)
Sample No: 22-2117-008

Date Collected: 04/01/22
Time Collected: 9:50
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/05/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/14/22 9:30				
pH @ 25°C, 1:2	8.67		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/04/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/06/22				
Preparation Method 3010A				
Preparation Date: 04/05/22				
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	2.2	0.1	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: 04/06/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/04/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 40-02 (5-10)
Sample No: 22-2117-008

Date Collected: 04/01/22
Time Collected: 9:50
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/07/22		Preparation Date: 04/05/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.023	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.020	0.005	mg/L	
Iron	16.7	0.1	mg/L	
Lead	0.009	0.005	mg/L	
Manganese	0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/05/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	95.8	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.6	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	91	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	74	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	69	45	112
8270C	2-Fluorophenol (Surr)	%R:	64	41	84
8270C	d14-Terphenyl (Surr)	%R:	93	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	72	35	105
8270C	Phenol-d5 (surr)	%R:	75.5	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/01/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 9:51

Sample ID: 40-02 (10-15)

Date Received: 04/04/22

Sample No: 22-2117-009

Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/04/22				
Total Solids	86.71		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/09/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 40-02 (10-15)
Sample No: 22-2117-009

Date Collected: 04/01/22
Time Collected: 9:51
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/09/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/06/22				
Preparation Date: 04/05/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 40-02 (10-15)
Sample No: 22-2117-009

Date Collected: 04/01/22
Time Collected: 9:51
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 40-02 (10-15)
Sample No: 22-2117-009

Date Collected: 04/01/22
Time Collected: 9:51
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.9	1.0	mg/kg	
Barium	23.0	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	0.6	0.5	mg/kg	
Calcium	90,700	50	mg/kg	
Chromium	12.1	0.5	mg/kg	
Cobalt	7.4	0.5	mg/kg	
Copper	17.2	0.5	mg/kg	
Iron	15,200	5.0	mg/kg	
Lead	9.2	0.5	mg/kg	
Magnesium	48,700	50	mg/kg	
Manganese	357	0.5	mg/kg	
Nickel	19.2	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	243	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	16.0	1.0	mg/kg	
Zinc	30.2	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 40-02 (10-15)
Sample No: 22-2117-009

Date Collected: 04/01/22
Time Collected: 9:51
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/07/22		Preparation Date: 04/05/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.005	0.005	mg/L	
Iron	3.9	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/05/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.2	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.6	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	91.8	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	72.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	72	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	63	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	88	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	72	35 -	105
8270C	Phenol-d5 (surr)	%R:	74	50 -	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/01/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 9:52

Sample ID: 40-02 (15-21)

Date Received: 04/04/22

Sample No: 22-2117-010

Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/04/22				
Total Solids	91.20		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/06/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 40-02 (15-21)
Sample No: 22-2117-010

Date Collected: 04/01/22
Time Collected: 9:52
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/06/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/06/22				
Preparation Date: 04/05/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 40-02 (15-21)
Sample No: 22-2117-010

Date Collected: 04/01/22
Time Collected: 9:52
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 40-02 (15-21)
Sample No: 22-2117-010

Date Collected: 04/01/22
Time Collected: 9:52
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	1.8	1.0	mg/kg	
Barium	25.5	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	69,500	50	mg/kg	
Chromium	9.5	0.5	mg/kg	
Cobalt	4.1	0.5	mg/kg	
Copper	10.5	0.5	mg/kg	
Iron	9,760	5.0	mg/kg	
Lead	3.6	0.5	mg/kg	
Magnesium	32,800	50	mg/kg	
Manganese	218	0.5	mg/kg	
Nickel	10.6	0.5	mg/kg	
Potassium	1,250	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	140	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	13.9	1.0	mg/kg	
Zinc	16.6	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 40-02 (15-21)
Sample No: 22-2117-010

Date Collected: 04/01/22
Time Collected: 9:52
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/05/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/14/22 9:30				
pH @ 25°C, 1:2	8.72		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/04/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/06/22				
		Preparation Method 3010A		
		Preparation Date: 04/05/22		
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	1.5	0.1	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: 04/06/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/04/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 40-02 (15-21)
Sample No: 22-2117-010

Date Collected: 04/01/22
Time Collected: 9:52
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/07/22		Preparation Date: 04/05/22		
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	1.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/05/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	89	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.1	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	115.1	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:	63	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	87	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	70	35 -	105
8270C	Phenol-d5 (surr)	%R:	74	50 -	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-41-02 (0-5)
Sample No: 22-2423-009

Date Collected: 04/11/22
Time Collected: 10:00
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	83.72		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/19/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-41-02 (0-5)
Sample No: 22-2423-009

Date Collected: 04/11/22
Time Collected: 10:00
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/19/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/25/22				
Preparation Date: 04/22/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-41-02 (0-5)
Sample No: 22-2423-009

Date Collected: 04/11/22
Time Collected: 10:00
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/25/22		Preparation Date: 04/22/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-41-02 (0-5)
Sample No: 22-2423-009

Date Collected: 04/11/22
Time Collected: 10:00
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/25/22		Preparation Date: 04/22/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/29/22		Preparation Date: 04/22/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.4	1.0	mg/kg	
Barium	44.0	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	13.7	0.5	mg/kg	
Cobalt	5.0	0.5	mg/kg	
Copper	13.0	0.5	mg/kg	
Iron	13,600	5.0	mg/kg	
Lead	7.2	0.5	mg/kg	
Magnesium	28,900	50	mg/kg	
Manganese	214	0.5	mg/kg	
Nickel	12.6	0.5	mg/kg	
Potassium	866	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	416	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	21.8	1.0	mg/kg	
Zinc	29.4	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-41-02 (0-5)
Sample No: 22-2423-009

Date Collected: 04/11/22
Time Collected: 10:00
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/06/22		Preparation Date: 05/05/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.013	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.007	0.005	mg/L	
Iron	9.3	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/05/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary: Surrogate Recovery				%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.2	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	102.9	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	107.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	71	45	112
8270C	2-Fluorophenol (Surr)	%R:	65	41	84
8270C	d14-Terphenyl (Surr)	%R:	86	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	80	35	105
8270C	Phenol-d5 (surr)	%R:	74.5	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/11/22

Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05

Time Collected: 10:01

Sample ID: 3919-COV-41-02 (5-11)

Date Received: 04/12/22

Sample No: 22-2423-010

Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	88.40		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/19/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/11/22

Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05

Time Collected: 10:01

Sample ID: 3919-COV-41-02 (5-11)

Date Received: 04/12/22

Sample No: 22-2423-010

Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/19/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/25/22				
Preparation Date: 04/22/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-41-02 (5-11)
Sample No: 22-2423-010

Date Collected: 04/11/22
Time Collected: 10:01
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/25/22		Preparation Date: 04/22/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-41-02 (5-11)
Sample No: 22-2423-010

Date Collected: 04/11/22
Time Collected: 10:01
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/25/22		Preparation Date: 04/22/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/29/22		Preparation Date: 04/22/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.3	1.0	mg/kg	
Barium	22.6	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	68,100	50	mg/kg	
Chromium	8.7	0.5	mg/kg	
Cobalt	4.1	0.5	mg/kg	
Copper	11.5	0.5	mg/kg	
Iron	9,780	5.0	mg/kg	
Lead	4.0	0.5	mg/kg	
Magnesium	33,500	50	mg/kg	
Manganese	217	0.5	mg/kg	
Nickel	10.7	0.5	mg/kg	
Potassium	1,040	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	376	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	14.1	1.0	mg/kg	
Zinc	23.4	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-41-02 (5-11)
Sample No: 22-2423-010

Date Collected: 04/11/22
Time Collected: 10:01
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/27/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/28/22 12:45				
pH @ 25°C, 1:2	8.83		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/20/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/29/22				
Preparation Method 3010A				
Preparation Date: 04/25/22				
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	0.8	0.1	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: 05/03/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/20/22				
SPLP Metals Extraction	Complete			
Arsenic	0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-41-02 (5-11)
Sample No: 22-2423-010

Date Collected: 04/11/22
Time Collected: 10:01
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/06/22		Preparation Date: 05/05/22		
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	0.041	0.005	mg/L	
Iron	31.4	0.1	mg/L	
Lead	0.013	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/05/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104.1	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	113.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	69	45	112
8270C	2-Fluorophenol (Surr)	%R:	60	41	84
8270C	d14-Terphenyl (Surr)	%R:	91	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	74	35	105
8270C	Phenol-d5 (surr)	%R:	72	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-05 (0-5)
Sample No: 22-2256-027

Date Collected: 04/06/22
Time Collected: 13:20
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/07/22				
Total Solids	74.29		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/12/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-05 (0-5)
Sample No: 22-2256-027

Date Collected: 04/06/22
Time Collected: 13:20
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/12/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/14/22				
Preparation Date: 04/12/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-05 (0-5)
Sample No: 22-2256-027

Date Collected: 04/06/22
Time Collected: 13:20
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/14/22		Preparation Date: 04/12/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-05 (0-5)
Sample No: 22-2256-027

Date Collected: 04/06/22
Time Collected: 13:20
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/14/22		Preparation Date: 04/12/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/11/22		Preparation Date: 04/08/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.8	1.0	mg/kg	
Barium	122	0.5	mg/kg	
Beryllium	1.0	0.5	mg/kg	
Cadmium	1.6	0.5	mg/kg	
Calcium	17,700	50	mg/kg	
Chromium	19.8	0.5	mg/kg	
Cobalt	8.8	0.5	mg/kg	
Copper	29.3	0.5	mg/kg	
Iron	14,800	5.0	mg/kg	
Lead	13.5	0.5	mg/kg	
Magnesium	11,500	50	mg/kg	
Manganese	106	0.5	mg/kg	
Nickel	25.3	0.5	mg/kg	
Potassium	1,090	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,990	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	31.4	1.0	mg/kg	
Zinc	48.0	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-05 (0-5)
Sample No: 22-2256-027

Date Collected: 04/06/22
Time Collected: 13:20
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/14/22		Preparation Date: 04/12/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.026	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.044	0.005	mg/L	
Iron	16.0	0.1	mg/L	
Lead	0.009	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/13/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.2	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	102.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	121	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	70	45	112
8270C	2-Fluorophenol (Surr)	%R:	62.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	106	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	63	35	105
8270C	Phenol-d5 (surr)	%R:	77.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-05 (5-11)
Sample No: 22-2256-028

Date Collected: 04/06/22
Time Collected: 13:21
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/11/22				
Total Solids	82.55		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/12/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-05 (5-11)
Sample No: 22-2256-028

Date Collected: 04/06/22
Time Collected: 13:21
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/12/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/14/22				
Preparation Date: 04/12/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-05 (5-11)
Sample No: 22-2256-028

Date Collected: 04/06/22
Time Collected: 13:21
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/14/22		Preparation Date: 04/12/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-05 (5-11)
Sample No: 22-2256-028

Date Collected: 04/06/22
Time Collected: 13:21
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/14/22		Preparation Date: 04/12/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/12/22		Preparation Date: 04/11/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.7	1.0	mg/kg	
Barium	28.9	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	98,700	50	mg/kg	
Chromium	11.4	0.5	mg/kg	
Cobalt	5.5	0.5	mg/kg	
Copper	14.6	0.5	mg/kg	
Iron	11,900	5.0	mg/kg	
Lead	6.9	0.5	mg/kg	
Magnesium	55,000	50	mg/kg	
Manganese	320	0.5	mg/kg	
Nickel	16.0	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	1,050	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	15.6	1.0	mg/kg	
Zinc	29.4	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-05 (5-11)
Sample No: 22-2256-028

Date Collected: 04/06/22
Time Collected: 13:21
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/14/22		Preparation Date: 04/12/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.082	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.092	0.005	mg/L	
Iron	103	0.1	mg/L	
Lead	0.057	0.005	mg/L	
Manganese	0.9	0.1	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/13/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	91.2	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.5	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	101.8	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	110	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	65	45	112
8270C	2-Fluorophenol (Surr)	%R:	58	41	84
8270C	d14-Terphenyl (Surr)	%R:	97	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	72	35	105
8270C	Phenol-d5 (surr)	%R:	70.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-14 (0-5)
Sample No: 22-2365-023

Date Collected: 04/08/22
Time Collected: 11:12
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	83.33		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-14 (0-5)
Sample No: 22-2365-023

Date Collected: 04/08/22
Time Collected: 11:12
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22				
Preparation Date: 04/20/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-14 (0-5)
Sample No: 22-2365-023

Date Collected: 04/08/22
Time Collected: 11:12
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-14 (0-5)
Sample No: 22-2365-023

Date Collected: 04/08/22
Time Collected: 11:12
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/25/22		Preparation Date: 04/19/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.7	1.0	mg/kg	
Barium	45.6	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	71,900	50	mg/kg	
Chromium	13.1	0.5	mg/kg	
Cobalt	6.4	0.5	mg/kg	
Copper	18.4	0.5	mg/kg	
Iron	13,400	5.0	mg/kg	
Lead	18.9	0.5	mg/kg	
Magnesium	38,400	50	mg/kg	
Manganese	334	0.5	mg/kg	
Nickel	16.5	0.5	mg/kg	
Potassium	1,200	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	2,180	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	22.2	1.0	mg/kg	
Zinc	36.2	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-14 (0-5)
Sample No: 22-2365-023

Date Collected: 04/08/22
Time Collected: 11:12
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/26/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/28/22 12:45				
pH @ 25°C, 1:2	8.56		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/18/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/26/22				
Preparation Method 3010A				
Preparation Date: 04/21/22				
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	3.0	0.1	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: 05/02/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/18/22				
SPLP Metals Extraction	Complete			
Arsenic	0.012	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-14 (0-5)
Sample No: 22-2365-023

Date Collected: 04/08/22
Time Collected: 11:12
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/27/22		Preparation Date: 04/21/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.051	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.059	0.005	mg/L	
Iron	40.0	0.1	mg/L	
Lead	0.035	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/03/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.9	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.4	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104.9	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	86	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	75	45	112
8270C	2-Fluorophenol (Surr)	%R:	61	41	84
8270C	d14-Terphenyl (Surr)	%R:	101	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	58	35	105
8270C	Phenol-d5 (surr)	%R:	73.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-14 (5-10)
Sample No: 22-2365-024

Date Collected: 04/08/22
Time Collected: 11:18
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	68.6		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
Acetone	313	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-14 (5-10)
Sample No: 22-2365-024

Date Collected: 04/08/22
Time Collected: 11:18
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22				
Preparation Date: 04/20/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-14 (5-10)
Sample No: 22-2365-024

Date Collected: 04/08/22
Time Collected: 11:18
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-14 (5-10)
Sample No: 22-2365-024

Date Collected: 04/08/22
Time Collected: 11:18
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/25/22		Preparation Date: 04/19/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.5	1.0	mg/kg	
Barium	57.9	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	40,000	50	mg/kg	
Chromium	14.9	0.5	mg/kg	
Cobalt	6.6	0.5	mg/kg	
Copper	21.0	0.5	mg/kg	
Iron	14,000	5.0	mg/kg	
Lead	9.5	0.5	mg/kg	
Magnesium	22,800	50	mg/kg	
Manganese	231	0.5	mg/kg	
Nickel	19.9	0.5	mg/kg	
Potassium	1,340	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	2,150	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	22.2	1.0	mg/kg	
Zinc	52.3	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-14 (5-10)
Sample No: 22-2365-024

Date Collected: 04/08/22
Time Collected: 11:18
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/26/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/28/22 12:45				
pH @ 25°C, 1:2	8.13		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/18/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/26/22				
Preparation Method 3010A				
Preparation Date: 04/21/22				
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	2.9	0.1	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: 05/02/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/18/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-14 (5-10)
Sample No: 22-2365-024

Date Collected: 04/08/22
Time Collected: 11:18
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/27/22		Preparation Date: 04/21/22		
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	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/03/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.8	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.2	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104.6	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	85	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	67	45	112
8270C	2-Fluorophenol (Surr)	%R:	67	41	84
8270C	d14-Terphenyl (Surr)	%R:	100	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: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-14 (10-15)
Sample No: 22-2365-025

Date Collected: 04/08/22
Time Collected: 11:16
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	90.66		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-14 (10-15)
Sample No: 22-2365-025

Date Collected: 04/08/22
Time Collected: 11:16
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22				
Preparation Date: 04/20/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-14 (10-15)
Sample No: 22-2365-025

Date Collected: 04/08/22
Time Collected: 11:16
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-14 (10-15)
Sample No: 22-2365-025

Date Collected: 04/08/22
Time Collected: 11:16
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/25/22		Preparation Date: 04/19/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	< 1.0	1.0	mg/kg	
Barium	31.0	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	55,800	50	mg/kg	
Chromium	8.3	0.5	mg/kg	
Cobalt	3.6	0.5	mg/kg	
Copper	8.4	0.5	mg/kg	
Iron	10,300	5.0	mg/kg	
Lead	4.6	0.5	mg/kg	
Magnesium	26,400	50	mg/kg	
Manganese	275	0.5	mg/kg	
Nickel	8.2	0.5	mg/kg	
Potassium	711	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	435	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	26.5	1.0	mg/kg	
Zinc	18.9	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-14 (10-15)
Sample No: 22-2365-025

Date Collected: 04/08/22
Time Collected: 11:16
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/27/22		Preparation Date: 04/21/22		
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	0.3	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/03/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.6	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.8	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103.3	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	89	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	76	45	112
8270C	2-Fluorophenol (Surr)	%R:	71	41	84
8270C	d14-Terphenyl (Surr)	%R:	102	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	77	35	105
8270C	Phenol-d5 (surr)	%R:	79.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-14 (15-20)
Sample No: 22-2365-026

Date Collected: 04/08/22
Time Collected: 11:18
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	87.5		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-14 (15-20)
Sample No: 22-2365-026

Date Collected: 04/08/22
Time Collected: 11:18
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22				
Preparation Date: 04/20/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-14 (15-20)
Sample No: 22-2365-026

Date Collected: 04/08/22
Time Collected: 11:18
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-14 (15-20)
Sample No: 22-2365-026

Date Collected: 04/08/22
Time Collected: 11:18
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/25/22		Preparation Date: 04/19/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.4	1.0	mg/kg	
Barium	32.8	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	85,100	50	mg/kg	
Chromium	16.1	0.5	mg/kg	
Cobalt	9.5	0.5	mg/kg	
Copper	20.6	0.5	mg/kg	
Iron	17,900	5.0	mg/kg	
Lead	9.5	0.5	mg/kg	
Magnesium	43,100	50	mg/kg	
Manganese	400	0.5	mg/kg	
Nickel	24.0	0.5	mg/kg	
Potassium	2,540	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	201	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	20.9	1.0	mg/kg	
Zinc	35.3	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-14 (15-20)
Sample No: 22-2365-026

Date Collected: 04/08/22
Time Collected: 11:18
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/27/22		Preparation Date: 04/21/22		
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	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/03/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	94.2	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.6	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104.3	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	75	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	73	45	112
8270C	2-Fluorophenol (Surr)	%R:	62.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	96	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 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-14 (20-25)
Sample No: 22-2365-027

Date Collected: 04/08/22
Time Collected: 11:20
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	86.4		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-14 (20-25)
Sample No: 22-2365-027

Date Collected: 04/08/22
Time Collected: 11:20
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22				
Preparation Date: 04/20/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-14 (20-25)
Sample No: 22-2365-027

Date Collected: 04/08/22
Time Collected: 11:20
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-14 (20-25)
Sample No: 22-2365-027

Date Collected: 04/08/22
Time Collected: 11:20
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/25/22		Preparation Date: 04/19/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.9	1.0	mg/kg	
Barium	30.4	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	79,200	50	mg/kg	
Chromium	14.5	0.5	mg/kg	
Cobalt	9.2	0.5	mg/kg	
Copper	21.2	0.5	mg/kg	
Iron	17,800	5.0	mg/kg	
Lead	9.6	0.5	mg/kg	
Magnesium	39,600	50	mg/kg	
Manganese	389	0.5	mg/kg	
Nickel	23.4	0.5	mg/kg	
Potassium	2,250	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	180	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	19.1	1.0	mg/kg	
Zinc	35.3	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-14 (20-25)
Sample No: 22-2365-027

Date Collected: 04/08/22
Time Collected: 11:20
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/27/22		Preparation Date: 04/21/22		
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	1.9	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/03/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99	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:	67	45	112
8270C	2-Fluorophenol (Surr)	%R:	65.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	94	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	70	35	105
8270C	Phenol-d5 (surr)	%R:	74	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-20 (0-5)
Sample No: 22-2365-011

Date Collected: 04/08/22
Time Collected: 10:12
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	81.92		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-20 (0-5)
Sample No: 22-2365-011

Date Collected: 04/08/22
Time Collected: 10:12
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22				
Preparation Date: 04/19/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-20 (0-5)
Sample No: 22-2365-011

Date Collected: 04/08/22
Time Collected: 10:12
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/22/22		Preparation Date: 04/19/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-20 (0-5)
Sample No: 22-2365-011

Date Collected: 04/08/22
Time Collected: 10:12
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22		Preparation Date: 04/19/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/19/22		Preparation Date: 04/15/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.8	1.0	mg/kg	
Barium	85.5	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	13,400	50	mg/kg	
Chromium	16.6	0.5	mg/kg	
Cobalt	7.3	0.5	mg/kg	
Copper	16.7	0.5	mg/kg	
Iron	17,900	5.0	mg/kg	
Lead	13.3	0.5	mg/kg	
Magnesium	8,260	50	mg/kg	
Manganese	228	0.5	mg/kg	
Nickel	17.7	0.5	mg/kg	
Potassium	826	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	2,460	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	32.6	1.0	mg/kg	
Zinc	38.9	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-20 (0-5)
Sample No: 22-2365-011

Date Collected: 04/08/22
Time Collected: 10:12
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/25/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/28/22 12:45				
pH @ 25°C, 1:2	8.51		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/14/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/21/22				
Preparation Method 3010A				
Preparation Date: 04/20/22				
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	2.6	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	3.4	0.1	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: 04/22/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/14/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-20 (0-5)
Sample No: 22-2365-011

Date Collected: 04/08/22
Time Collected: 10:12
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
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	0.029	0.005	mg/L	
Iron	45.3	0.1	mg/L	
Lead	0.014	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/22/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary: Surrogate Recovery			
Method	Analyte	QC Result	%R Limits Low High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 97.1	86 - 117
5035A/8260B	d8-Toluene (Surr)	%R: 99.1	90 - 110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 104.4	77 - 120
8270C	2,4,6-Tribromophenol (Surr)	%R: 119.5	59 - 131
8270C	2-Fluorobiphenyl (Surr)	%R: 69	45 - 112
8270C	2-Fluorophenol (Surr)	%R: 61	41 - 84
8270C	d14-Terphenyl (Surr)	%R: 98	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 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-20 (5-11)
Sample No: 22-2365-012

Date Collected: 04/08/22
Time Collected: 10:14
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	85.46		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-20 (5-11)
Sample No: 22-2365-012

Date Collected: 04/08/22
Time Collected: 10:14
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22				
Preparation Date: 04/19/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-20 (5-11)
Sample No: 22-2365-012

Date Collected: 04/08/22
Time Collected: 10:14
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/22/22		Preparation Date: 04/19/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-20 (5-11)
Sample No: 22-2365-012

Date Collected: 04/08/22
Time Collected: 10:14
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22		Preparation Date: 04/19/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/19/22		Preparation Date: 04/15/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.8	1.0	mg/kg	
Barium	28.9	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	70,900	50	mg/kg	
Chromium	11.3	0.5	mg/kg	
Cobalt	8.0	0.5	mg/kg	
Copper	14.4	0.5	mg/kg	
Iron	35,600	5.0	mg/kg	
Lead	7.6	0.5	mg/kg	
Magnesium	35,900	50	mg/kg	
Manganese	458	0.5	mg/kg	
Nickel	22.0	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	883	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	16.8	1.0	mg/kg	
Zinc	31.9	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-20 (5-11)
Sample No: 22-2365-012

Date Collected: 04/08/22
Time Collected: 10:14
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
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	0.015	0.005	mg/L	
Iron	14.7	0.1	mg/L	
Lead	0.007	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/22/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	95.6	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104.6	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	123	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	78	45	112
8270C	2-Fluorophenol (Surr)	%R:	65	41	84
8270C	d14-Terphenyl (Surr)	%R:	94	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	86	35	105
8270C	Phenol-d5 (surr)	%R:	84.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-24 (0-5)
Sample No: 22-2365-003

Date Collected: 04/08/22
Time Collected: 9:30
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	77.34		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-24 (0-5)
Sample No: 22-2365-003

Date Collected: 04/08/22
Time Collected: 9:30
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/21/22				
Preparation Date: 04/18/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-24 (0-5)
Sample No: 22-2365-003

Date Collected: 04/08/22
Time Collected: 9:30
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/21/22		Preparation Date: 04/18/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-24 (0-5)
Sample No: 22-2365-003

Date Collected: 04/08/22
Time Collected: 9:30
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/21/22		Preparation Date: 04/18/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/19/22		Preparation Date: 04/15/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.2	1.0	mg/kg	
Barium	84.1	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	6,220	50	mg/kg	
Chromium	20.9	0.5	mg/kg	
Cobalt	9.1	0.5	mg/kg	
Copper	19.4	0.5	mg/kg	
Iron	19,300	5.0	mg/kg	
Lead	19.4	0.5	mg/kg	
Magnesium	5,240	50	mg/kg	
Manganese	235	0.5	mg/kg	
Nickel	22.4	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	811	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	32.2	1.0	mg/kg	
Zinc	51.7	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-24 (0-5)
Sample No: 22-2365-003

Date Collected: 04/08/22
Time Collected: 9:30
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
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	0.022	0.005	mg/L	
Iron	27.6	0.1	mg/L	
Lead	0.011	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/22/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	99	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	52.5	*	59 - 131
8270C	2-Fluorobiphenyl (Surr)	%R:	41	*	45 - 112
8270C	2-Fluorophenol (Surr)	%R:	40	*	41 - 84
8270C	d14-Terphenyl (Surr)	%R:	60		56 - 120
8270C	d5-Nitrobenzene (Surr)	%R:	42		35 - 105
8270C	Phenol-d5 (surr)	%R:	45.5	*	50 - 100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-24 (5-11)
Sample No: 22-2365-004

Date Collected: 04/08/22
Time Collected: 9:35
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	88.31		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-24 (5-11)
Sample No: 22-2365-004

Date Collected: 04/08/22
Time Collected: 9:35
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/21/22				
Preparation Date: 04/18/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-24 (5-11)
Sample No: 22-2365-004

Date Collected: 04/08/22
Time Collected: 9:35
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/21/22		Preparation Date: 04/18/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-24 (5-11)
Sample No: 22-2365-004

Date Collected: 04/08/22
Time Collected: 9:35
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/21/22		Preparation Date: 04/18/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/19/22		Preparation Date: 04/15/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.1	1.0	mg/kg	
Barium	29.9	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	82,600	50	mg/kg	
Chromium	13.7	0.5	mg/kg	
Cobalt	7.7	0.5	mg/kg	
Copper	17.6	0.5	mg/kg	
Iron	17,700	5.0	mg/kg	
Lead	7.8	0.5	mg/kg	
Magnesium	43,300	50	mg/kg	
Manganese	374	0.5	mg/kg	
Nickel	20.7	0.5	mg/kg	
Potassium	1,960	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	350	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	18.9	1.0	mg/kg	
Zinc	46.4	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-24 (5-11)
Sample No: 22-2365-004

Date Collected: 04/08/22
Time Collected: 9:35
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.026	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.021	0.005	mg/L	
Iron	23.5	0.1	mg/L	
Lead	0.005	0.005	mg/L	
Manganese	0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/22/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	100	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	74	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	68	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	58.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	82	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	66	35 -	105
8270C	Phenol-d5 (surr)	%R:	67	50 -	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-27 (0-5)
Sample No: 22-2330-003

Date Collected: 04/07/22
Time Collected: 13:30
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	84.77		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/13/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-27 (0-5)
Sample No: 22-2330-003

Date Collected: 04/07/22
Time Collected: 13:30
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/13/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/19/22				
Preparation Date: 04/17/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-27 (0-5)
Sample No: 22-2330-003

Date Collected: 04/07/22
Time Collected: 13:30
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/19/22		Preparation Date: 04/17/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-27 (0-5)
Sample No: 22-2330-003

Date Collected: 04/07/22
Time Collected: 13:30
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/19/22		Preparation Date: 04/17/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/14/22		Preparation Date: 04/13/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.9	1.0	mg/kg	
Barium	75.3	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	8,130	50	mg/kg	
Chromium	19.2	0.5	mg/kg	
Cobalt	11.7	0.5	mg/kg	
Copper	19.7	0.5	mg/kg	
Iron	20,100	5.0	mg/kg	
Lead	19.8	0.5	mg/kg	
Magnesium	6,650	50	mg/kg	
Manganese	217	0.5	mg/kg	
Nickel	22.2	0.5	mg/kg	
Potassium	1,140	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	29.6	1.0	mg/kg	
Zinc	48.5	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-27 (0-5)
Sample No: 22-2330-003

Date Collected: 04/07/22
Time Collected: 13:30
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/19/22		Preparation Date: 04/18/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.051	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.045	0.005	mg/L	
Iron	49.8	0.1	mg/L	
Lead	0.027	0.005	mg/L	
Manganese	0.4	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/15/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	100	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	106	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	79.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	71	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	58	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	95	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	69	35 -	105
8270C	Phenol-d5 (surr)	%R:	68	50 -	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/07/22

Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47

Time Collected: 13:31

Sample ID: 3919-COV-41-27 (5-11)

Date Received: 04/08/22

Sample No: 22-2330-004

Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	86.02		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/13/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-27 (5-11)
Sample No: 22-2330-004

Date Collected: 04/07/22
Time Collected: 13:31
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/13/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/19/22				
Preparation Date: 04/17/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-27 (5-11)
Sample No: 22-2330-004

Date Collected: 04/07/22
Time Collected: 13:31
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/19/22		Preparation Date: 04/17/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-27 (5-11)
Sample No: 22-2330-004

Date Collected: 04/07/22
Time Collected: 13:31
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/19/22		Preparation Date: 04/17/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/14/22		Preparation Date: 04/13/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.5	1.0	mg/kg	
Barium	51.9	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	31,800	50	mg/kg	
Chromium	16.7	0.5	mg/kg	
Cobalt	7.7	0.5	mg/kg	
Copper	18.6	0.5	mg/kg	
Iron	16,300	5.0	mg/kg	
Lead	12.3	0.5	mg/kg	
Magnesium	14,700	50	mg/kg	
Manganese	272	0.5	mg/kg	
Nickel	17.6	0.5	mg/kg	
Potassium	1,050	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	246	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	26.2	1.0	mg/kg	
Zinc	38.6	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-27 (5-11)
Sample No: 22-2330-004

Date Collected: 04/07/22
Time Collected: 13:31
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/19/22		Preparation Date: 04/18/22		
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	0.006	0.005	mg/L	
Iron	5.2	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/15/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	99	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	105	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	78.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	63	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	57.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	88	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	68	35 -	105
8270C	Phenol-d5 (surr)	%R:	67	50 -	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/07/22

Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47

Time Collected: 13:10

Sample ID: 3919-COV-41-28 (0-5)

Date Received: 04/08/22

Sample No: 22-2330-005

Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	87.48		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/13/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-28 (0-5)
Sample No: 22-2330-005

Date Collected: 04/07/22
Time Collected: 13:10
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/13/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/18/22				
Preparation Date: 04/14/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-28 (0-5)
Sample No: 22-2330-005

Date Collected: 04/07/22
Time Collected: 13:10
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/18/22		Preparation Date: 04/14/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-28 (0-5)
Sample No: 22-2330-005

Date Collected: 04/07/22
Time Collected: 13:10
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/18/22		Preparation Date: 04/14/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/14/22		Preparation Date: 04/13/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.6	1.0	mg/kg	
Barium	22.9	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	93,500	50	mg/kg	
Chromium	11.3	0.5	mg/kg	
Cobalt	7.7	0.5	mg/kg	
Copper	18.2	0.5	mg/kg	
Iron	14,600	5.0	mg/kg	
Lead	8.6	0.5	mg/kg	
Magnesium	49,200	50	mg/kg	
Manganese	366	0.5	mg/kg	
Nickel	18.2	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	1,080	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	17.3	1.0	mg/kg	
Zinc	40.9	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-28 (0-5)
Sample No: 22-2330-005

Date Collected: 04/07/22
Time Collected: 13:10
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/19/22		Preparation Date: 04/18/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.038	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.045	0.005	mg/L	
Iron	43.0	0.1	mg/L	
Lead	0.017	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/15/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	107	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	78	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	70	45	112
8270C	2-Fluorophenol (Surr)	%R:	60.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	92	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	73	35	105
8270C	Phenol-d5 (surr)	%R:	69	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-28 (5-11)
Sample No: 22-2330-006

Date Collected: 04/07/22
Time Collected: 13:11
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	93.76		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/13/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-28 (5-11)
Sample No: 22-2330-006

Date Collected: 04/07/22
Time Collected: 13:11
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/13/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/18/22				
Preparation Date: 04/14/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-28 (5-11)
Sample No: 22-2330-006

Date Collected: 04/07/22
Time Collected: 13:11
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/18/22		Preparation Date: 04/14/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-28 (5-11)
Sample No: 22-2330-006

Date Collected: 04/07/22
Time Collected: 13:11
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/18/22		Preparation Date: 04/14/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/14/22		Preparation Date: 04/13/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	1.7	1.0	mg/kg	
Barium	16.9	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	67,600	50	mg/kg	
Chromium	8.1	0.5	mg/kg	
Cobalt	3.2	0.5	mg/kg	
Copper	8.9	0.5	mg/kg	
Iron	7,890	5.0	mg/kg	
Lead	3.7	0.5	mg/kg	
Magnesium	32,300	50	mg/kg	
Manganese	196	0.5	mg/kg	
Nickel	8.1	0.5	mg/kg	
Potassium	743	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	384	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	12.6	1.0	mg/kg	
Zinc	20.7	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-28 (5-11)
Sample No: 22-2330-006

Date Collected: 04/07/22
Time Collected: 13:11
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/19/22		Preparation Date: 04/18/22		
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	0.021	0.005	mg/L	
Iron	14.5	0.1	mg/L	
Lead	0.005	0.005	mg/L	
Manganese	0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/15/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	99	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	77	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	70	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	66	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	94	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	75	35 -	105
8270C	Phenol-d5 (surr)	%R:	74	50 -	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/07/22

Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47

Time Collected: 9:25

Sample ID: 3919-COV-41-31 (0-5)

Date Received: 04/08/22

Sample No: 22-2330-011

Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	81.02		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/13/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-31 (0-5)
Sample No: 22-2330-011

Date Collected: 04/07/22
Time Collected: 9:25
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/13/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/18/22				
Preparation Date: 04/14/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-31 (0-5)
Sample No: 22-2330-011

Date Collected: 04/07/22
Time Collected: 9:25
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/18/22		Preparation Date: 04/14/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-31 (0-5)
Sample No: 22-2330-011

Date Collected: 04/07/22
Time Collected: 9:25
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/18/22		Preparation Date: 04/14/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/18/22		Preparation Date: 04/13/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.6	1.0	mg/kg	
Barium	79.5	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	15,900	50	mg/kg	
Chromium	17.3	0.5	mg/kg	
Cobalt	9.0	0.5	mg/kg	
Copper	19.4	0.5	mg/kg	
Iron	17,300	5.0	mg/kg	
Lead	30.9	0.5	mg/kg	
Magnesium	10,300	50	mg/kg	
Manganese	234	0.5	mg/kg	
Nickel	19.4	0.5	mg/kg	
Potassium	1,340	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	699	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	27.1	1.0	mg/kg	
Zinc	67.4	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-31 (0-5)
Sample No: 22-2330-011

Date Collected: 04/07/22
Time Collected: 9:25
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/19/22		Preparation Date: 04/18/22		
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	0.027	0.005	mg/L	
Iron	24.1	0.1	mg/L	
Lead	0.027	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/15/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	76	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	70	45	112
8270C	2-Fluorophenol (Surr)	%R:	61.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	88	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	49	35	105
8270C	Phenol-d5 (surr)	%R:	70.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-31 (5-11)
Sample No: 22-2330-012

Date Collected: 04/07/22
Time Collected: 9:26
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	80.89		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-31 (5-11)
Sample No: 22-2330-012

Date Collected: 04/07/22
Time Collected: 9:26
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/18/22				
Preparation Date: 04/14/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-31 (5-11)
Sample No: 22-2330-012

Date Collected: 04/07/22
Time Collected: 9:26
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/18/22		Preparation Date: 04/14/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-31 (5-11)
Sample No: 22-2330-012

Date Collected: 04/07/22
Time Collected: 9:26
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/18/22		Preparation Date: 04/14/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/18/22		Preparation Date: 04/13/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.0	1.0	mg/kg	
Barium	45.2	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	60,500	50	mg/kg	
Chromium	19.1	0.5	mg/kg	
Cobalt	7.4	0.5	mg/kg	
Copper	24.1	0.5	mg/kg	
Iron	23,600	5.0	mg/kg	
Lead	12.4	0.5	mg/kg	
Magnesium	34,600	50	mg/kg	
Manganese	234	0.5	mg/kg	
Nickel	24.9	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	498	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	28.2	1.0	mg/kg	
Zinc	53.8	1.0	mg/kg	



Analytical Report

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Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-31 (5-11)
Sample No: 22-2330-012

Date Collected: 04/07/22
Time Collected: 9:26
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/12/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/20/22 10:46				
pH @ 25°C, 1:2	8.62		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/12/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/20/22				
Preparation Method 3010A				
Preparation Date: 04/15/22				
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	2.1	0.1	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: 04/15/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/12/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-31 (5-11)
Sample No: 22-2330-012

Date Collected: 04/07/22
Time Collected: 9:26
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/19/22		Preparation Date: 04/18/22		
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	0.026	0.005	mg/L	
Iron	36.1	0.1	mg/L	
Lead	0.010	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/15/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.6	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	97.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	105.7	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	77.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	64	45	112
8270C	2-Fluorophenol (Surr)	%R:	64	41	84
8270C	d14-Terphenyl (Surr)	%R:	92	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	73	35	105
8270C	Phenol-d5 (surr)	%R:	73	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/07/22

Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47

Time Collected: 9:35

Sample ID: 3919-COV-41-32 (0-5)

Date Received: 04/08/22

Sample No: 22-2330-013

Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	82.4		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-32 (0-5)
Sample No: 22-2330-013

Date Collected: 04/07/22
Time Collected: 9:35
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/19/22				
Preparation Date: 04/17/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-32 (0-5)
Sample No: 22-2330-013

Date Collected: 04/07/22
Time Collected: 9:35
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/19/22		Preparation Date: 04/17/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-32 (0-5)
Sample No: 22-2330-013

Date Collected: 04/07/22
Time Collected: 9:35
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/19/22				Preparation Date: 04/17/22
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/18/22				Preparation Date: 04/13/22
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.4	1.0	mg/kg	
Barium	68.2	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	46,200	50	mg/kg	
Chromium	18.6	0.5	mg/kg	
Cobalt	12.0	0.5	mg/kg	
Copper	23.3	0.5	mg/kg	
Iron	22,700	5.0	mg/kg	
Lead	15.3	0.5	mg/kg	
Magnesium	25,800	50	mg/kg	
Manganese	390	0.5	mg/kg	
Nickel	26.0	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	1,350	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	27.7	1.0	mg/kg	
Zinc	45.9	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-32 (0-5)
Sample No: 22-2330-013

Date Collected: 04/07/22
Time Collected: 9:35
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/12/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/20/22 10:46				
pH @ 25°C, 1:2	8.78		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/12/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/20/22				
Preparation Method 3010A				
Preparation Date: 04/15/22				
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	6.1	0.1	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: 04/15/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/12/22				
SPLP Metals Extraction	Complete			
Arsenic	0.032	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-32 (0-5)
Sample No: 22-2330-013

Date Collected: 04/07/22
Time Collected: 9:35
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/19/22		Preparation Date: 04/18/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.102	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.110	0.005	mg/L	
Iron	104	0.1	mg/L	
Lead	0.058	0.005	mg/L	
Manganese	0.9	0.1	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/15/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.6	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.7	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	105.5	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	78.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	74	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	61.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	92	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	73	35 -	105
8270C	Phenol-d5 (surr)	%R:	70.5	50 -	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/07/22

Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47

Time Collected: 9:36

Sample ID: 3919-COV-41-33 (5-11)

Date Received: 04/08/22

Sample No: 22-2330-014

Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	87.44		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-33 (5-11)
Sample No: 22-2330-014

Date Collected: 04/07/22
Time Collected: 9:36
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/19/22				
Preparation Date: 04/17/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-33 (5-11)
Sample No: 22-2330-014

Date Collected: 04/07/22
Time Collected: 9:36
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/19/22		Preparation Date: 04/17/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-33 (5-11)
Sample No: 22-2330-014

Date Collected: 04/07/22
Time Collected: 9:36
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/19/22				Preparation Date: 04/17/22
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/18/22				Preparation Date: 04/13/22
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.5	1.0	mg/kg	
Barium	21.1	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	76,100	50	mg/kg	
Chromium	12.8	0.5	mg/kg	
Cobalt	8.5	0.5	mg/kg	
Copper	17.5	0.5	mg/kg	
Iron	16,900	5.0	mg/kg	
Lead	9.9	0.5	mg/kg	
Magnesium	40,600	50	mg/kg	
Manganese	349	0.5	mg/kg	
Nickel	21.1	0.5	mg/kg	
Potassium	1,760	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	185	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	21.0	1.0	mg/kg	
Zinc	40.1	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-33 (5-11)
Sample No: 22-2330-014

Date Collected: 04/07/22
Time Collected: 9:36
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/19/22		Preparation Date: 04/18/22		
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	0.033	0.005	mg/L	
Iron	33.2	0.1	mg/L	
Lead	0.016	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/15/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary: Surrogate Recovery				%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.4	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	106.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	76	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	73	45	112
8270C	2-Fluorophenol (Surr)	%R:	63	41	84
8270C	d14-Terphenyl (Surr)	%R:	88	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	73	35	105
8270C	Phenol-d5 (surr)	%R:	70.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-33 (0-5)
Sample No: 22-2330-015

Date Collected: 04/07/22
Time Collected: 9:50
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	90.46		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-33 (0-5)
Sample No: 22-2330-015

Date Collected: 04/07/22
Time Collected: 9:50
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/19/22				
Preparation Date: 04/17/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-33 (0-5)
Sample No: 22-2330-015

Date Collected: 04/07/22
Time Collected: 9:50
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/19/22		Preparation Date: 04/17/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-33 (0-5)
Sample No: 22-2330-015

Date Collected: 04/07/22
Time Collected: 9:50
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/19/22		Preparation Date: 04/17/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/18/22		Preparation Date: 04/13/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.4	1.0	mg/kg	
Barium	18.0	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	78,700	50	mg/kg	
Chromium	8.3	0.5	mg/kg	
Cobalt	3.5	0.5	mg/kg	
Copper	9.6	0.5	mg/kg	
Iron	8,500	5.0	mg/kg	
Lead	7.5	0.5	mg/kg	
Magnesium	46,300	50	mg/kg	
Manganese	220	0.5	mg/kg	
Nickel	7.2	0.5	mg/kg	
Potassium	400	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	657	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	15.6	1.0	mg/kg	
Zinc	18.8	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-33 (0-5)
Sample No: 22-2330-015

Date Collected: 04/07/22
Time Collected: 9:50
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/19/22		Preparation Date: 04/18/22		
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	0.037	0.005	mg/L	
Iron	35.8	0.1	mg/L	
Lead	0.027	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/15/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104.5	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	84.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	75	45	112
8270C	2-Fluorophenol (Surr)	%R:	63.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	100	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	75	35	105
8270C	Phenol-d5 (surr)	%R:	72	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-33 (5-11)
Sample No: 22-2330-016

Date Collected: 04/07/22
Time Collected: 9:51
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	84.78		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-33 (5-11)
Sample No: 22-2330-016

Date Collected: 04/07/22
Time Collected: 9:51
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/19/22				
Preparation Date: 04/17/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-33 (5-11)
Sample No: 22-2330-016

Date Collected: 04/07/22
Time Collected: 9:51
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/19/22		Preparation Date: 04/17/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-33 (5-11)
Sample No: 22-2330-016

Date Collected: 04/07/22
Time Collected: 9:51
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/19/22				Preparation Date: 04/17/22
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/18/22				Preparation Date: 04/13/22
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.5	1.0	mg/kg	
Barium	11.6	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	77,200	50	mg/kg	
Chromium	7.5	0.5	mg/kg	
Cobalt	3.7	0.5	mg/kg	
Copper	10.0	0.5	mg/kg	
Iron	7,990	5.0	mg/kg	
Lead	5.9	0.5	mg/kg	
Magnesium	39,900	50	mg/kg	
Manganese	233	0.5	mg/kg	
Nickel	9.6	0.5	mg/kg	
Potassium	802	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	123	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	10.8	1.0	mg/kg	
Zinc	18.0	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-33 (5-11)
Sample No: 22-2330-016

Date Collected: 04/07/22
Time Collected: 9:51
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/12/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/20/22 10:46				
pH @ 25°C, 1:2	8.54		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/12/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 04/20/22 Preparation Date: 04/15/22				
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	1.0	0.1	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: 04/15/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/12/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-33 (5-11)
Sample No: 22-2330-016

Date Collected: 04/07/22
Time Collected: 9:51
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/21/22		Preparation Date: 04/19/22		
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	< 0.005	0.005	mg/L	
Iron	4.2	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/15/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.3	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	105.9	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	81	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	77	45	112
8270C	2-Fluorophenol (Surr)	%R:	65	41	84
8270C	d14-Terphenyl (Surr)	%R:	96	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	78	35	105
8270C	Phenol-d5 (surr)	%R:	73.5	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/07/22

Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47

Time Collected: 10:00

Sample ID: 3919-COV-41-35 (0-5)

Date Received: 04/08/22

Sample No: 22-2330-019

Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	81.99		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-35 (0-5)
Sample No: 22-2330-019

Date Collected: 04/07/22
Time Collected: 10:00
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/19/22				
Preparation Date: 04/17/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-35 (0-5)
Sample No: 22-2330-019

Date Collected: 04/07/22
Time Collected: 10:00
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/19/22		Preparation Date: 04/17/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-35 (0-5)
Sample No: 22-2330-019

Date Collected: 04/07/22
Time Collected: 10:00
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/19/22		Preparation Date: 04/17/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/20/22		Preparation Date: 04/13/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.2	1.0	mg/kg	
Barium	62.8	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	8,850	50	mg/kg	
Chromium	17.5	0.5	mg/kg	
Cobalt	9.8	0.5	mg/kg	
Copper	14.5	0.5	mg/kg	
Iron	18,200	5.0	mg/kg	
Lead	10.6	0.5	mg/kg	
Magnesium	6,470	50	mg/kg	
Manganese	295	0.5	mg/kg	
Nickel	17.0	0.5	mg/kg	
Potassium	1,090	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	941	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	31.1	1.0	mg/kg	
Zinc	34.3	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-35 (0-5)
Sample No: 22-2330-019

Date Collected: 04/07/22
Time Collected: 10:00
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/12/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/20/22 10:46				
pH @ 25°C, 1:2	8.60		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/12/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/20/22				
Preparation Method 3010A				
Preparation Date: 04/15/22				
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	4.0	0.1	mg/L	
Lead	0.006	0.005	mg/L	
Manganese	9.3	0.1	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: 04/15/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/12/22				
SPLP Metals Extraction	Complete			
Arsenic	0.018	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-35 (0-5)
Sample No: 22-2330-019

Date Collected: 04/07/22
Time Collected: 10:00
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/21/22		Preparation Date: 04/19/22		
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	0.061	0.005	mg/L	
Iron	68.3	0.1	mg/L	
Lead	0.036	0.005	mg/L	
Manganese	0.7	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/20/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	107.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	79.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	71	45	112
8270C	2-Fluorophenol (Surr)	%R:	64	41	84
8270C	d14-Terphenyl (Surr)	%R:	94	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	74	35	105
8270C	Phenol-d5 (surr)	%R:	74	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/07/22

Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47

Time Collected: 10:01

Sample ID: 3919-COV-41-35 (5-11)

Date Received: 04/08/22

Sample No: 22-2330-020

Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	86.97		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-35 (5-11)
Sample No: 22-2330-020

Date Collected: 04/07/22
Time Collected: 10:01
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/19/22				
Preparation Date: 04/17/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-35 (5-11)
Sample No: 22-2330-020

Date Collected: 04/07/22
Time Collected: 10:01
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/19/22		Preparation Date: 04/17/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-35 (5-11)
Sample No: 22-2330-020

Date Collected: 04/07/22
Time Collected: 10:01
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/19/22		Preparation Date: 04/17/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/20/22		Preparation Date: 04/13/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.4	1.0	mg/kg	
Barium	38.9	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	64,400	50	mg/kg	
Chromium	10.8	0.5	mg/kg	
Cobalt	6.1	0.5	mg/kg	
Copper	13.8	0.5	mg/kg	
Iron	12,400	5.0	mg/kg	
Lead	7.4	0.5	mg/kg	
Magnesium	31,700	50	mg/kg	
Manganese	346	0.5	mg/kg	
Nickel	13.3	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	653	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	17.6	1.0	mg/kg	
Zinc	28.7	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-35 (5-11)
Sample No: 22-2330-020

Date Collected: 04/07/22
Time Collected: 10:01
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/12/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/20/22 10:46				
pH @ 25°C, 1:2	8.35		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/12/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 04/20/22 Preparation Date: 04/15/22				
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	3.9	0.1	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: 04/15/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/12/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-35 (5-11)
Sample No: 22-2330-020

Date Collected: 04/07/22
Time Collected: 10:01
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/21/22		Preparation Date: 04/19/22		
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	0.007	0.005	mg/L	
Iron	7.0	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/20/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104.8	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	75.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	65	45	112
8270C	2-Fluorophenol (Surr)	%R:	60	41	84
8270C	d14-Terphenyl (Surr)	%R:	87	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	68	35	105
8270C	Phenol-d5 (surr)	%R:	71.5	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/07/22

Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47

Time Collected: 10:10

Sample ID: 3919-COV-41-36 (0-5)

Date Received: 04/08/22

Sample No: 22-2330-021

Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	85.77		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-36 (0-5)
Sample No: 22-2330-021

Date Collected: 04/07/22
Time Collected: 10:10
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/19/22				
Preparation Date: 04/17/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-36 (0-5)
Sample No: 22-2330-021

Date Collected: 04/07/22
Time Collected: 10:10
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/19/22		Preparation Date: 04/17/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	04/07/22
Project ID:	81.0220714.06, IDOT 199-014 WO #5 IL 47	Time Collected:	10:10
Sample ID:	3919-COV-41-36 (0-5)	Date Received:	04/08/22
Sample No:	22-2330-021	Date Reported:	04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/19/22		Preparation Date: 04/17/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/20/22		Preparation Date: 04/13/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.8	1.0	mg/kg	
Barium	61.3	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	1,950	50	mg/kg	
Chromium	21.1	0.5	mg/kg	
Cobalt	12.0	0.5	mg/kg	
Copper	20.4	0.5	mg/kg	
Iron	20,300	5.0	mg/kg	
Lead	15.7	0.5	mg/kg	
Magnesium	3,680	50	mg/kg	
Manganese	179	0.5	mg/kg	
Nickel	23.6	0.5	mg/kg	
Potassium	1,890	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,300	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	29.9	1.0	mg/kg	
Zinc	48.6	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-36 (0-5)
Sample No: 22-2330-021

Date Collected: 04/07/22
Time Collected: 10:10
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/21/22		Preparation Date: 04/19/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.040	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.050	0.005	mg/L	
Iron	35.0	0.1	mg/L	
Lead	0.020	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/20/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.6	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.6	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	106	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	76.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	63	45	112
8270C	2-Fluorophenol (Surr)	%R:	60	41	84
8270C	d14-Terphenyl (Surr)	%R:	90	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	69	35	105
8270C	Phenol-d5 (surr)	%R:	68	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-36 (5-11)
Sample No: 22-2330-022

Date Collected: 04/07/22
Time Collected: 10:11
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	87.1		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-36 (5-11)
Sample No: 22-2330-022

Date Collected: 04/07/22
Time Collected: 10:11
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/19/22				
Preparation Date: 04/17/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-36 (5-11)
Sample No: 22-2330-022

Date Collected: 04/07/22
Time Collected: 10:11
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/19/22		Preparation Date: 04/17/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-36 (5-11)
Sample No: 22-2330-022

Date Collected: 04/07/22
Time Collected: 10:11
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/19/22		Preparation Date: 04/17/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/20/22		Preparation Date: 04/13/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.0	1.0	mg/kg	
Barium	21.5	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	114,000	50	mg/kg	
Chromium	12.6	0.5	mg/kg	
Cobalt	8.2	0.5	mg/kg	
Copper	21.6	0.5	mg/kg	
Iron	17,900	5.0	mg/kg	
Lead	11.4	0.5	mg/kg	
Magnesium	60,300	50	mg/kg	
Manganese	504	0.5	mg/kg	
Nickel	20.7	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	1,220	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	17.3	1.0	mg/kg	
Zinc	45.8	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-41-36 (5-11)
Sample No: 22-2330-022

Date Collected: 04/07/22
Time Collected: 10:11
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/21/22		Preparation Date: 04/19/22		
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	0.043	0.005	mg/L	
Iron	37.7	0.1	mg/L	
Lead	0.015	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/20/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.3	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	105.7	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	83.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	74	45	112
8270C	2-Fluorophenol (Surr)	%R:	66.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	99	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.

Date Collected: 04/11/22

Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05

Time Collected: 11:10

Sample ID: 3919-COV-47-01 (0-5)

Date Received: 04/12/22

Sample No: 22-2423-015

Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	86.19		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/19/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/11/22

Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05

Time Collected: 11:10

Sample ID: 3919-COV-47-01 (0-5)

Date Received: 04/12/22

Sample No: 22-2423-015

Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/19/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/26/22				
Preparation Date: 04/24/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-47-01 (0-5)
Sample No: 22-2423-015

Date Collected: 04/11/22
Time Collected: 11:10
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/26/22		Preparation Date: 04/24/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-47-01 (0-5)
Sample No: 22-2423-015

Date Collected: 04/11/22
Time Collected: 11:10
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/26/22		Preparation Date: 04/24/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 04/29/22		Preparation Date: 04/22/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.1	1.0	mg/kg	
Barium	31.6	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	70,500	50	mg/kg	
Chromium	16.3	0.5	mg/kg	
Cobalt	11.1	0.5	mg/kg	
Copper	20.6	0.5	mg/kg	
Iron	18,600	5.0	mg/kg	
Lead	12.9	0.5	mg/kg	
Magnesium	38,600	50	mg/kg	
Manganese	437	0.5	mg/kg	
Nickel	28.8	0.5	mg/kg	
Potassium	1,810	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	858	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	19.6	1.0	mg/kg	
Zinc	50.9	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-47-01 (0-5)
Sample No: 22-2423-015

Date Collected: 04/11/22
Time Collected: 11:10
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/06/22		Preparation Date: 05/05/22		
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	0.029	0.005	mg/L	
Iron	31.6	0.1	mg/L	
Lead	0.010	0.005	mg/L	
Manganese	0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/05/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.4	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	122.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	69	45	112
8270C	2-Fluorophenol (Surr)	%R:	60.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	96	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	80	35	105
8270C	Phenol-d5 (surr)	%R:	73.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-47-01 (5-10)
Sample No: 22-2423-016

Date Collected: 04/11/22
Time Collected: 11:11
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	88.10		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/19/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-47-01 (5-10)
Sample No: 22-2423-016

Date Collected: 04/11/22
Time Collected: 11:11
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/19/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/26/22				
Preparation Date: 04/24/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-47-01 (5-10)
Sample No: 22-2423-016

Date Collected: 04/11/22
Time Collected: 11:11
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/26/22		Preparation Date: 04/24/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-47-01 (5-10)
Sample No: 22-2423-016

Date Collected: 04/11/22
Time Collected: 11:11
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/26/22		Preparation Date: 04/24/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/29/22		Preparation Date: 04/22/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.4	1.0	mg/kg	
Barium	26.9	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	82,400	50	mg/kg	
Chromium	15.0	0.5	mg/kg	
Cobalt	25.8	0.5	mg/kg	
Copper	20.1	0.5	mg/kg	
Iron	20,500	5.0	mg/kg	
Lead	11.0	0.5	mg/kg	
Magnesium	45,600	50	mg/kg	
Manganese	491	0.5	mg/kg	
Nickel	33.9	0.5	mg/kg	
Potassium	1,970	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	497	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	20.1	1.0	mg/kg	
Zinc	45.9	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-47-01 (5-10)
Sample No: 22-2423-016

Date Collected: 04/11/22
Time Collected: 11:11
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/06/22		Preparation Date: 05/05/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.067	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.098	0.005	mg/L	
Iron	68.7	0.1	mg/L	
Lead	0.032	0.005	mg/L	
Manganese	0.3	0.1	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/05/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.8	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.1	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103.1	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	126.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	72	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:	80.5	50 -	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/11/22

Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05

Time Collected: 11:12

Sample ID: 3919-COV-47-01 (10-15)

Date Received: 04/12/22

Sample No: 22-2423-017

Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	89.70		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/19/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-47-01 (10-15)
Sample No: 22-2423-017

Date Collected: 04/11/22
Time Collected: 11:12
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/19/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/26/22				
Preparation Date: 04/24/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-47-01 (10-15)
Sample No: 22-2423-017

Date Collected: 04/11/22
Time Collected: 11:12
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/26/22		Preparation Date: 04/24/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-47-01 (10-15)
Sample No: 22-2423-017

Date Collected: 04/11/22
Time Collected: 11:12
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/26/22		Preparation Date: 04/24/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/29/22		Preparation Date: 04/22/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.1	1.0	mg/kg	
Barium	21.5	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	82,300	50	mg/kg	
Chromium	12.9	0.5	mg/kg	
Cobalt	8.4	0.5	mg/kg	
Copper	18.5	0.5	mg/kg	
Iron	14,300	5.0	mg/kg	
Lead	10.1	0.5	mg/kg	
Magnesium	44,400	50	mg/kg	
Manganese	390	0.5	mg/kg	
Nickel	20.2	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	305	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	17.1	1.0	mg/kg	
Zinc	34.8	1.0	mg/kg	



Analytical Report

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Sample No: 22-2423-017

Date Collected: 04/11/22
Time Collected: 11:12
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/06/22		Preparation Date: 05/05/22		
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	23.0	0.1	mg/L	
Lead	0.016	0.005	mg/L	
Manganese	0.4	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/05/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	94	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	97.2	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	101.9	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	112	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	77	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	67.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	97	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	86	35 -	105
8270C	Phenol-d5 (surr)	%R:	82	50 -	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/11/22

Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05

Time Collected: 11:13

Sample ID: 3919-COV-47-01 (15-20)

Date Received: 04/12/22

Sample No: 22-2423-018

Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	91.67		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/19/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

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Date Collected: 04/11/22

Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05

Time Collected: 11:13

Sample ID: 3919-COV-47-01 (15-20)

Date Received: 04/12/22

Sample No: 22-2423-018

Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/19/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/26/22				
Preparation Date: 04/24/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

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Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-47-01 (15-20)
Sample No: 22-2423-018

Date Collected: 04/11/22
Time Collected: 11:13
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/26/22		Preparation Date: 04/24/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
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Sample ID: 3919-COV-47-01 (15-20)
Sample No: 22-2423-018

Date Collected: 04/11/22
Time Collected: 11:13
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/26/22		Preparation Date: 04/24/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 04/29/22		Preparation Date: 04/22/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	1.2	1.0	mg/kg	
Barium	21.4	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	75,300	50	mg/kg	
Chromium	7.9	0.5	mg/kg	
Cobalt	3.6	0.5	mg/kg	
Copper	171	0.5	mg/kg	
Iron	8,940	5.0	mg/kg	
Lead	4.0	0.5	mg/kg	
Magnesium	37,200	50	mg/kg	
Manganese	236	0.5	mg/kg	
Nickel	9.6	0.5	mg/kg	
Potassium	986	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	134	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	13.0	1.0	mg/kg	
Zinc	20.1	1.0	mg/kg	



Analytical Report

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Date Collected: 04/11/22
Time Collected: 11:13
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Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/27/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/29/22 10:30				
pH @ 25°C, 1:2	8.56		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/21/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 05/06/22 Preparation Date: 05/05/22				
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	2.0	0.1	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: 05/03/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/21/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

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Sample No: 22-2423-018

Date Collected: 04/11/22
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Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/06/22		Preparation Date: 05/05/22		
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	0.6	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/05/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary: Surrogate Recovery			
Method	Analyte	QC Result	%R Limits Low High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 97.8	86 - 117
5035A/8260B	d8-Toluene (Surr)	%R: 99.2	90 - 110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 104.6	77 - 120
8270C	2,4,6-Tribromophenol (Surr)	%R: 117	59 - 131
8270C	2-Fluorobiphenyl (Surr)	%R: 72	45 - 112
8270C	2-Fluorophenol (Surr)	%R: 62	41 - 84
8270C	d14-Terphenyl (Surr)	%R: 93	56 - 120
8270C	d5-Nitrobenzene (Surr)	%R: 80	35 - 105
8270C	Phenol-d5 (surr)	%R: 74	50 - 100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-47-01 (20-25)
Sample No: 22-2423-019

Date Collected: 04/11/22
Time Collected: 11:14
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	90.68		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/19/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-47-01 (20-25)
Sample No: 22-2423-019

Date Collected: 04/11/22
Time Collected: 11:14
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/19/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/26/22				
Preparation Date: 04/24/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-47-01 (20-25)
Sample No: 22-2423-019

Date Collected: 04/11/22
Time Collected: 11:14
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/26/22		Preparation Date: 04/24/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-47-01 (20-25)
Sample No: 22-2423-019

Date Collected: 04/11/22
Time Collected: 11:14
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/26/22		Preparation Date: 04/24/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/29/22		Preparation Date: 04/22/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	< 1.0	1.0	mg/kg	
Barium	20.5	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	73,200	50	mg/kg	
Chromium	7.9	0.5	mg/kg	
Cobalt	3.5	0.5	mg/kg	
Copper	8.6	0.5	mg/kg	
Iron	8,340	5.0	mg/kg	
Lead	3.8	0.5	mg/kg	
Magnesium	36,600	50	mg/kg	
Manganese	216	0.5	mg/kg	
Nickel	9.3	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	122	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	12.6	1.0	mg/kg	
Zinc	19.2	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-47-01 (20-25)
Sample No: 22-2423-019

Date Collected: 04/11/22
Time Collected: 11:14
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/27/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/29/22 10:30				
pH @ 25°C, 1:2	8.55		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/21/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/06/22				
Preparation Method 3010A				
Preparation Date: 05/05/22				
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	1.6	0.1	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: 05/03/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/21/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-47-01 (20-25)
Sample No: 22-2423-019

Date Collected: 04/11/22
Time Collected: 11:14
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/06/22		Preparation Date: 05/05/22		
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	0.2	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/05/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary: Surrogate Recovery				%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.4	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103.3	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	115	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	60	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	59	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	91	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	74	35 -	105
8270C	Phenol-d5 (surr)	%R:	71	50 -	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-03 (0-4)
Sample No: 22-2550-003

Date Collected: 04/15/22
Time Collected: 9:29
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/20/22				
Total Solids	74.33		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/23/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-03 (0-4)
Sample No: 22-2550-003

Date Collected: 04/15/22
Time Collected: 9:29
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/23/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/09/22				
Preparation Date: 04/29/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-03 (0-4)
Sample No: 22-2550-003

Date Collected: 04/15/22
Time Collected: 9:29
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/09/22		Preparation Date: 04/29/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-03 (0-4)
Sample No: 22-2550-003

Date Collected: 04/15/22
Time Collected: 9:29
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/09/22		Preparation Date: 04/29/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/03/22		Preparation Date: 04/30/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	12.6	1.0	mg/kg	
Barium	47.8	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	68,200	50	mg/kg	
Chromium	17.0	0.5	mg/kg	
Cobalt	13.7	0.5	mg/kg	
Copper	24.8	0.5	mg/kg	
Iron	22,400	5.0	mg/kg	
Lead	13.7	0.5	mg/kg	
Magnesium	42,200	50	mg/kg	
Manganese	508	0.5	mg/kg	
Nickel	28.8	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	130	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	26.0	1.0	mg/kg	
Zinc	54.1	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-03 (0-4)
Sample No: 22-2550-003

Date Collected: 04/15/22
Time Collected: 9:29
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/03/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/13/22 10:10				
pH @ 25°C, 1:2	8.30		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/10/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 05/18/22 Preparation Date: 05/12/22				
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	1.2	0.1	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: 05/12/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/09/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-03 (0-4)
Sample No: 22-2550-003

Date Collected: 04/15/22
Time Collected: 9:29
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/18/22		Preparation Date: 05/12/22		
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	0.010	0.005	mg/L	
Iron	9.0	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/16/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.2	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.1	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103.5	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	124.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	71	45	112
8270C	2-Fluorophenol (Surr)	%R:	67	41	84
8270C	d14-Terphenyl (Surr)	%R:	102	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	87	35	105
8270C	Phenol-d5 (surr)	%R:	80.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-03 (4-8)
Sample No: 22-2550-004

Date Collected: 04/15/22
Time Collected: 9:31
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/20/22				
Total Solids	86.71		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/23/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-03 (4-8)
Sample No: 22-2550-004

Date Collected: 04/15/22
Time Collected: 9:31
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/23/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/09/22				
Preparation Date: 04/29/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-03 (4-8)
Sample No: 22-2550-004

Date Collected: 04/15/22
Time Collected: 9:31
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/09/22		Preparation Date: 04/29/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-03 (4-8)
Sample No: 22-2550-004

Date Collected: 04/15/22
Time Collected: 9:31
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/09/22				Preparation Date: 04/29/22
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/03/22				Preparation Date: 04/30/22
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.1	1.0	mg/kg	
Barium	28.8	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	69,200	50	mg/kg	
Chromium	14.8	0.5	mg/kg	
Cobalt	4.9	0.5	mg/kg	
Copper	18.1	0.5	mg/kg	
Iron	15,300	5.0	mg/kg	
Lead	10.5	0.5	mg/kg	
Magnesium	38,500	50	mg/kg	
Manganese	256	0.5	mg/kg	
Nickel	15.3	0.5	mg/kg	
Potassium	1,640	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	120	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	17.4	1.0	mg/kg	
Zinc	45.8	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-03 (4-8)
Sample No: 22-2550-004

Date Collected: 04/15/22
Time Collected: 9:31
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/03/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/13/22 10:10				
pH @ 25°C, 1:2	8.58		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/10/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/18/22				
Preparation Method 3010A				
Preparation Date: 05/12/22				
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	0.8	0.1	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: 05/12/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/09/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-03 (4-8)
Sample No: 22-2550-004

Date Collected: 04/15/22
Time Collected: 9:31
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/18/22		Preparation Date: 05/12/22		
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	0.008	0.005	mg/L	
Iron	6.6	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/16/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	94.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.6	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	102.5	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	118.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	63	45	112
8270C	2-Fluorophenol (Surr)	%R:	62	41	84
8270C	d14-Terphenyl (Surr)	%R:	93	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	82	35	105
8270C	Phenol-d5 (surr)	%R:	77	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-09 (0-4)
Sample No: 22-2550-015

Date Collected: 04/15/22
Time Collected: 10:22
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/20/22				
Total Solids	87.98		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/23/22				
Acetone	< 200	200	ug/kg	
Benzene	6.5	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	9.2	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-09 (0-4)
Sample No: 22-2550-015

Date Collected: 04/15/22
Time Collected: 10:22
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/23/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/09/22				
Preparation Date: 04/29/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-09 (0-4)
Sample No: 22-2550-015

Date Collected: 04/15/22
Time Collected: 10:22
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/09/22		Preparation Date: 04/29/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-09 (0-4)
Sample No: 22-2550-015

Date Collected: 04/15/22
Time Collected: 10:22
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/09/22		Preparation Date: 04/29/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/05/22		Preparation Date: 05/04/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	1.9	1.0	mg/kg	
Barium	32.1	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	62,600	50	mg/kg	
Chromium	10.1	0.5	mg/kg	
Cobalt	4.3	0.5	mg/kg	
Copper	10.0	0.5	mg/kg	
Iron	11,000	5.0	mg/kg	
Lead	4.6	0.5	mg/kg	
Magnesium	33,100	50	mg/kg	
Manganese	235	0.5	mg/kg	
Nickel	11.7	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	104	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	14.3	1.0	mg/kg	
Zinc	26.3	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-09 (0-4)
Sample No: 22-2550-015

Date Collected: 04/15/22
Time Collected: 10:22
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/17/22		Preparation Date: 05/16/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.013	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.015	0.005	mg/L	
Iron	12.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/16/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.8	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104.3	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	119	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	74	45	112
8270C	2-Fluorophenol (Surr)	%R:	62	41	84
8270C	d14-Terphenyl (Surr)	%R:	94	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	86	35	105
8270C	Phenol-d5 (surr)	%R:	75.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-09 (4-8)
Sample No: 22-2550-016

Date Collected: 04/15/22
Time Collected: 10:24
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/20/22				
Total Solids	86.18		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/23/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-09 (4-8)
Sample No: 22-2550-016

Date Collected: 04/15/22
Time Collected: 10:24
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/23/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/09/22				
Preparation Date: 04/29/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-09 (4-8)
Sample No: 22-2550-016

Date Collected: 04/15/22
Time Collected: 10:24
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/09/22		Preparation Date: 04/29/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-09 (4-8)
Sample No: 22-2550-016

Date Collected: 04/15/22
Time Collected: 10:24
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/09/22				Preparation Date: 04/29/22
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/05/22				Preparation Date: 05/04/22
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.0	1.0	mg/kg	
Barium	24.0	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	70,900	50	mg/kg	
Chromium	10.5	0.5	mg/kg	
Cobalt	4.4	0.5	mg/kg	
Copper	11.5	0.5	mg/kg	
Iron	12,000	5.0	mg/kg	
Lead	4.9	0.5	mg/kg	
Magnesium	34,400	50	mg/kg	
Manganese	226	0.5	mg/kg	
Nickel	12.8	0.5	mg/kg	
Potassium	1,180	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	115	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	15.0	1.0	mg/kg	
Zinc	26.8	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-09 (4-8)
Sample No: 22-2550-016

Date Collected: 04/15/22
Time Collected: 10:24
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/03/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/16/22 13:00				
pH @ 25°C, 1:2	8.72		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/10/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/18/22				
Preparation Method 3010A				
Preparation Date: 05/12/22				
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	1.0	0.1	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: 05/12/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/10/22				
SPLP Metals Extraction	Complete			
Arsenic	0.011	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-09 (4-8)
Sample No: 22-2550-016

Date Collected: 04/15/22
Time Collected: 10:24
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/17/22		Preparation Date: 05/16/22		
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	0.049	0.005	mg/L	
Iron	46.4	0.1	mg/L	
Lead	0.017	0.005	mg/L	
Manganese	0.5	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/16/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
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:	105.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	127	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	77	45	112
8270C	2-Fluorophenol (Surr)	%R:	66.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	100	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	89	35	105
8270C	Phenol-d5 (surr)	%R:	82	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-10 (0-4)
Sample No: 22-2550-017

Date Collected: 04/15/22
Time Collected: 10:30
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/20/22				
Total Solids	88.49		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/23/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-10 (0-4)
Sample No: 22-2550-017

Date Collected: 04/15/22
Time Collected: 10:30
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/23/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/10/22				
Preparation Date: 04/29/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-10 (0-4)
Sample No: 22-2550-017

Date Collected: 04/15/22
Time Collected: 10:30
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/10/22		Preparation Date: 04/29/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-10 (0-4)
Sample No: 22-2550-017

Date Collected: 04/15/22
Time Collected: 10:30
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/10/22		Preparation Date: 04/29/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/05/22		Preparation Date: 05/04/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.6	1.0	mg/kg	
Barium	34.8	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	92,200	50	mg/kg	
Chromium	15.1	0.5	mg/kg	
Cobalt	8.7	0.5	mg/kg	
Copper	19.9	0.5	mg/kg	
Iron	17,600	5.0	mg/kg	
Lead	8.7	0.5	mg/kg	
Magnesium	44,100	50	mg/kg	
Manganese	378	0.5	mg/kg	
Nickel	21.3	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	123	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	21.5	1.0	mg/kg	
Zinc	36.5	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-10 (0-4)
Sample No: 22-2550-017

Date Collected: 04/15/22
Time Collected: 10:30
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/03/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/16/22 13:00				
pH @ 25°C, 1:2	8.75		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/10/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/18/22				
Preparation Method 3010A				
Preparation Date: 05/12/22				
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	0.4	0.1	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: 05/12/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/10/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-10 (0-4)
Sample No: 22-2550-017

Date Collected: 04/15/22
Time Collected: 10:30
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/17/22		Preparation Date: 05/16/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.038	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.041	0.005	mg/L	
Iron	38.6	0.1	mg/L	
Lead	0.014	0.005	mg/L	
Manganese	0.4	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/16/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.4	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.4	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103.2	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	125.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	76	45	112
8270C	2-Fluorophenol (Surr)	%R:	70.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	94	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	90	35	105
8270C	Phenol-d5 (surr)	%R:	83.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-10 (4-8)
Sample No: 22-2550-018

Date Collected: 04/15/22
Time Collected: 10:32
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/20/22				
Total Solids	88.25		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/23/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-10 (4-8)
Sample No: 22-2550-018

Date Collected: 04/15/22
Time Collected: 10:32
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/23/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/10/22				
Preparation Date: 04/29/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-10 (4-8)
Sample No: 22-2550-018

Date Collected: 04/15/22
Time Collected: 10:32
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/10/22		Preparation Date: 04/29/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-10 (4-8)
Sample No: 22-2550-018

Date Collected: 04/15/22
Time Collected: 10:32
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/10/22				Preparation Date: 04/29/22
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/05/22				Preparation Date: 05/04/22
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.6	1.0	mg/kg	
Barium	29.0	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	78,800	50	mg/kg	
Chromium	14.1	0.5	mg/kg	
Cobalt	8.0	0.5	mg/kg	
Copper	19.0	0.5	mg/kg	
Iron	16,100	5.0	mg/kg	
Lead	8.4	0.5	mg/kg	
Magnesium	40,300	50	mg/kg	
Manganese	414	0.5	mg/kg	
Nickel	20.4	0.5	mg/kg	
Potassium	1,540	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	122	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	18.7	1.0	mg/kg	
Zinc	37.0	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-10 (4-8)
Sample No: 22-2550-018

Date Collected: 04/15/22
Time Collected: 10:32
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/19/22		Preparation Date: 05/17/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.095	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.120	0.005	mg/L	
Iron	103	0.1	mg/L	
Lead	0.038	0.005	mg/L	
Manganese	1.1	0.1	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/16/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.3	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	105.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	122	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	75	45	112
8270C	2-Fluorophenol (Surr)	%R:	65.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	97	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	88	35	105
8270C	Phenol-d5 (surr)	%R:	78	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-12 (0-4)
Sample No: 22-2550-021

Date Collected: 04/15/22
Time Collected: 10:52
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/20/22				
Total Solids	87.40		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/23/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-12 (0-4)
Sample No: 22-2550-021

Date Collected: 04/15/22
Time Collected: 10:52
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/23/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/01/22				
Preparation Date: 04/29/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-12 (0-4)
Sample No: 22-2550-021

Date Collected: 04/15/22
Time Collected: 10:52
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/01/22		Preparation Date: 04/29/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-12 (0-4)
Sample No: 22-2550-021

Date Collected: 04/15/22
Time Collected: 10:52
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/01/22		Preparation Date: 04/29/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/05/22		Preparation Date: 05/04/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.9	1.0	mg/kg	
Barium	19.4	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	78,600	50	mg/kg	
Chromium	7.2	0.5	mg/kg	
Cobalt	5.9	0.5	mg/kg	
Copper	10.2	0.5	mg/kg	
Iron	9,970	5.0	mg/kg	
Lead	5.6	0.5	mg/kg	
Magnesium	40,600	50	mg/kg	
Manganese	380	0.5	mg/kg	
Nickel	12.8	0.5	mg/kg	
Potassium	749	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	119	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	12.8	1.0	mg/kg	
Zinc	17.7	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-12 (0-4)
Sample No: 22-2550-021

Date Collected: 04/15/22
Time Collected: 10:52
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/04/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/16/22 13:00				
pH @ 25°C, 1:2	8.80		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/10/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/18/22				
Preparation Method 3010A				
Preparation Date: 05/12/22				
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	0.4	0.1	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: 05/17/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/10/22				
SPLP Metals Extraction	Complete			
Arsenic	0.040	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-12 (0-4)
Sample No: 22-2550-021

Date Collected: 04/15/22
Time Collected: 10:52
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/19/22		Preparation Date: 05/17/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.066	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.064	0.005	mg/L	
Iron	67.4	0.1	mg/L	
Lead	0.026	0.005	mg/L	
Manganese	0.7	0.1	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/17/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.5	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	100	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	105.1	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:	65	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	90	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	76	35 -	105
8270C	Phenol-d5 (surr)	%R:	73	50 -	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-12 (4-8)
Sample No: 22-2550-022

Date Collected: 04/15/22
Time Collected: 10:54
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/20/22				
Total Solids	89.19		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/23/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-12 (4-8)
Sample No: 22-2550-022

Date Collected: 04/15/22
Time Collected: 10:54
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/23/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/01/22				
Preparation Date: 04/29/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-12 (4-8)
Sample No: 22-2550-022

Date Collected: 04/15/22
Time Collected: 10:54
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/01/22		Preparation Date: 04/29/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-12 (4-8)
Sample No: 22-2550-022

Date Collected: 04/15/22
Time Collected: 10:54
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/01/22				Preparation Date: 04/29/22
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/09/22				Preparation Date: 05/05/22
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.2	1.0	mg/kg	
Barium	27.7	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	79,700	50	mg/kg	
Chromium	14.4	0.5	mg/kg	
Cobalt	5.6	0.5	mg/kg	
Copper	17.5	0.5	mg/kg	
Iron	16,500	5.0	mg/kg	
Lead	7.9	0.5	mg/kg	
Magnesium	< 50	50	mg/kg	
Manganese	271	0.5	mg/kg	
Nickel	18.9	0.5	mg/kg	
Potassium	2,000	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	136	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	19.3	1.0	mg/kg	
Zinc	38.5	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-12 (4-8)
Sample No: 22-2550-022

Date Collected: 04/15/22
Time Collected: 10:54
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/19/22		Preparation Date: 05/17/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	0.006	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	130	0.1	mg/L	
Lead	0.062	0.005	mg/L	
Manganese	0.8	0.1	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/17/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.9	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104.9	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	71.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	60	45	112
8270C	2-Fluorophenol (Surr)	%R:	62	41	84
8270C	d14-Terphenyl (Surr)	%R:	82	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	66	35	105
8270C	Phenol-d5 (surr)	%R:	69	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/11/22

Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05

Time Collected: 10:20

Sample ID: 3919-COV-48-01 (0-5)

Date Received: 04/12/22

Sample No: 22-2423-020

Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	77.88		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/19/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/11/22

Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05

Time Collected: 10:20

Sample ID: 3919-COV-48-01 (0-5)

Date Received: 04/12/22

Sample No: 22-2423-020

Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/19/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/26/22				
Preparation Date: 04/24/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-48-01 (0-5)
Sample No: 22-2423-020

Date Collected: 04/11/22
Time Collected: 10:20
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/26/22		Preparation Date: 04/24/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-48-01 (0-5)
Sample No: 22-2423-020

Date Collected: 04/11/22
Time Collected: 10:20
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/26/22		Preparation Date: 04/24/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/29/22		Preparation Date: 04/22/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.2	1.0	mg/kg	
Barium	125	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	7,710	50	mg/kg	
Chromium	18.0	0.5	mg/kg	
Cobalt	7.6	0.5	mg/kg	
Copper	19.6	0.5	mg/kg	
Iron	19,800	5.0	mg/kg	
Lead	22.6	0.5	mg/kg	
Magnesium	5,160	50	mg/kg	
Manganese	630	0.5	mg/kg	
Nickel	16.0	0.5	mg/kg	
Potassium	2,290	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	583	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	33.9	1.0	mg/kg	
Zinc	54.6	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-48-01 (0-5)
Sample No: 22-2423-020

Date Collected: 04/11/22
Time Collected: 10:20
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/06/22		Preparation Date: 05/05/22		
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	0.015	0.005	mg/L	
Iron	14.7	0.1	mg/L	
Lead	0.006	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/05/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary: Surrogate Recovery				%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	95.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.3	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	102.3	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	106.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	63	45	112
8270C	2-Fluorophenol (Surr)	%R:	47	41	84
8270C	d14-Terphenyl (Surr)	%R:	96	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 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-48-01 (5-10)
Sample No: 22-2423-021

Date Collected: 04/11/22
Time Collected: 10:21
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	86.46		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/20/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-48-01 (5-10)
Sample No: 22-2423-021

Date Collected: 04/11/22
Time Collected: 10:21
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/20/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/26/22				
Preparation Date: 04/24/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-48-01 (5-10)
Sample No: 22-2423-021

Date Collected: 04/11/22
Time Collected: 10:21
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/26/22		Preparation Date: 04/24/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-48-01 (5-10)
Sample No: 22-2423-021

Date Collected: 04/11/22
Time Collected: 10:21
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/26/22		Preparation Date: 04/24/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/29/22		Preparation Date: 04/22/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.0	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	79,500	50	mg/kg	
Chromium	12.7	0.5	mg/kg	
Cobalt	9.1	0.5	mg/kg	
Copper	13.5	0.5	mg/kg	
Iron	12,500	5.0	mg/kg	
Lead	6.6	0.5	mg/kg	
Magnesium	39,100	50	mg/kg	
Manganese	503	0.5	mg/kg	
Nickel	17.9	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	257	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	18.2	1.0	mg/kg	
Zinc	27.2	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-48-01 (5-10)
Sample No: 22-2423-021

Date Collected: 04/11/22
Time Collected: 10:21
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/27/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/29/22 10:30				
pH @ 25°C, 1:2	8.73		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/21/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/06/22				
Preparation Method 3010A				
Preparation Date: 05/05/22				
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	1.4	0.1	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: 05/05/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/21/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-48-01 (5-10)
Sample No: 22-2423-021

Date Collected: 04/11/22
Time Collected: 10:21
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/09/22		Preparation Date: 05/05/22		
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	0.008	0.005	mg/L	
Iron	6.0	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/06/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary: Surrogate Recovery				%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.5	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	102.1	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	119.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	69	45	112
8270C	2-Fluorophenol (Surr)	%R:	64.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	97	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	80	35	105
8270C	Phenol-d5 (surr)	%R:	79	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-48-05 (0-5)
Sample No: 22-2330-027

Date Collected: 04/07/22
Time Collected: 10:20
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	78.54		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-48-05 (0-5)
Sample No: 22-2330-027

Date Collected: 04/07/22
Time Collected: 10:20
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/19/22				
Preparation Date: 04/17/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-48-05 (0-5)
Sample No: 22-2330-027

Date Collected: 04/07/22
Time Collected: 10:20
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/19/22		Preparation Date: 04/17/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/07/22

Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47

Time Collected: 10:20

Sample ID: 3919-COV-48-05 (0-5)

Date Received: 04/08/22

Sample No: 22-2330-027

Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/19/22		Preparation Date: 04/17/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 04/20/22		Preparation Date: 04/13/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	9.2	1.0	mg/kg	
Barium	103	0.5	mg/kg	
Beryllium	0.9	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,220	50	mg/kg	
Chromium	31.8	0.5	mg/kg	
Cobalt	14.2	0.5	mg/kg	
Copper	28.4	0.5	mg/kg	
Iron	35,700	5.0	mg/kg	
Lead	16.6	0.5	mg/kg	
Magnesium	5,970	50	mg/kg	
Manganese	664	0.5	mg/kg	
Nickel	32.2	0.5	mg/kg	
Potassium	2,020	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	3,620	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	40.0	1.0	mg/kg	
Zinc	62.5	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-48-05 (0-5)
Sample No: 22-2330-027

Date Collected: 04/07/22
Time Collected: 10:20
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/21/22		Preparation Date: 04/19/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	0.005	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.152	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.132	0.005	mg/L	
Iron	160	0.1	mg/L	
Lead	0.034	0.005	mg/L	
Manganese	0.8	0.1	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/20/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.6	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	107.3	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	106.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	67	45	112
8270C	2-Fluorophenol (Surr)	%R:	60.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	90	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	88	35	105
8270C	Phenol-d5 (surr)	%R:	78.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-48-05 (5-10)
Sample No: 22-2330-028

Date Collected: 04/07/22
Time Collected: 10:21
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	87.95		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-48-05 (5-10)
Sample No: 22-2330-028

Date Collected: 04/07/22
Time Collected: 10:21
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/19/22				
Preparation Date: 04/17/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-48-05 (5-10)
Sample No: 22-2330-028

Date Collected: 04/07/22
Time Collected: 10:21
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/19/22		Preparation Date: 04/17/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-48-05 (5-10)
Sample No: 22-2330-028

Date Collected: 04/07/22
Time Collected: 10:21
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/19/22		Preparation Date: 04/17/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/20/22		Preparation Date: 04/13/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.1	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	93,800	50	mg/kg	
Chromium	15.4	0.5	mg/kg	
Cobalt	7.9	0.5	mg/kg	
Copper	17.0	0.5	mg/kg	
Iron	15,200	5.0	mg/kg	
Lead	6.2	0.5	mg/kg	
Magnesium	44,000	50	mg/kg	
Manganese	367	0.5	mg/kg	
Nickel	18.6	0.5	mg/kg	
Potassium	2,290	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	21.5	1.0	mg/kg	
Zinc	33.1	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-48-05 (5-10)
Sample No: 22-2330-028

Date Collected: 04/07/22
Time Collected: 10:21
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/21/22		Preparation Date: 04/19/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.052	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.067	0.005	mg/L	
Iron	49.4	0.1	mg/L	
Lead	0.018	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/20/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	97.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	108.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	116.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	70	45	112
8270C	2-Fluorophenol (Surr)	%R:	65.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	88	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	81	35	105
8270C	Phenol-d5 (surr)	%R:	82	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-49-01 (0-5)
Sample No: 22-2456-001

Date Collected: 04/12/22
Time Collected: 9:30
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	83.25		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
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	5.2	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-49-01 (0-5)
Sample No: 22-2456-001

Date Collected: 04/12/22
Time Collected: 9:30
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/27/22				
Preparation Date: 04/25/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-49-01 (0-5)
Sample No: 22-2456-001

Date Collected: 04/12/22
Time Collected: 9:30
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/27/22		Preparation Date: 04/25/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-49-01 (0-5)
Sample No: 22-2456-001

Date Collected: 04/12/22
Time Collected: 9:30
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/27/22				Preparation Date: 04/25/22
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/28/22				Preparation Date: 04/28/22
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.6	1.0	mg/kg	
Barium	49.5	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	1,740	50	mg/kg	
Chromium	23.5	0.5	mg/kg	
Cobalt	10.3	0.5	mg/kg	
Copper	26.3	0.5	mg/kg	
Iron	26,400	5.0	mg/kg	
Lead	12.2	0.5	mg/kg	
Magnesium	3,700	50	mg/kg	
Manganese	141	0.5	mg/kg	
Nickel	29.0	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	2,110	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	32.6	1.0	mg/kg	
Zinc	53.4	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-49-01 (0-5)
Sample No: 22-2456-001

Date Collected: 04/12/22
Time Collected: 9:30
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/29/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/29/22 10:30				
pH @ 25°C, 1:2	8.59		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/02/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/12/22				
Preparation Method 3010A				
Preparation Date: 05/11/22				
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	2.2	0.1	mg/L	
Lead	0.006	0.005	mg/L	
Manganese	2.8	0.1	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: 05/09/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/02/22				
SPLP Metals Extraction	Complete			
Arsenic	0.097	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-49-01 (0-5)
Sample No: 22-2456-001

Date Collected: 04/12/22
Time Collected: 9:30
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/11/22		Preparation Date: 05/10/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	0.009	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.272	0.005	mg/L	
Cobalt	0.1	0.1	mg/L	
Copper	0.305	0.005	mg/L	
Iron	293	0.1	mg/L	
Lead	0.143	0.005	mg/L	
Manganese	1.4	0.1	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/10/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.5	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.3	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	105.6	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	111	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	64	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	59	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	91	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	72	35 -	105
8270C	Phenol-d5 (surr)	%R:	74.5	50 -	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/12/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 9:35

Sample ID: 3919-COV-49-01 (5-10)

Date Received: 04/13/22

Sample No: 22-2456-002

Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	81.29		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-49-01 (5-10)
Sample No: 22-2456-002

Date Collected: 04/12/22
Time Collected: 9:35
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/27/22				
Preparation Date: 04/25/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-49-01 (5-10)
Sample No: 22-2456-002

Date Collected: 04/12/22
Time Collected: 9:35
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/27/22		Preparation Date: 04/25/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-49-01 (5-10)
Sample No: 22-2456-002

Date Collected: 04/12/22
Time Collected: 9:35
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/27/22		Preparation Date: 04/25/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/28/22		Preparation Date: 04/28/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	1.5	1.0	mg/kg	
Barium	60.5	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	17,800	50	mg/kg	
Chromium	16.7	0.5	mg/kg	
Cobalt	6.5	0.5	mg/kg	
Copper	6.9	0.5	mg/kg	
Iron	14,600	5.0	mg/kg	
Lead	6.3	0.5	mg/kg	
Magnesium	11,900	50	mg/kg	
Manganese	617	0.5	mg/kg	
Nickel	13.5	0.5	mg/kg	
Potassium	603	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	552	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	29.8	1.0	mg/kg	
Zinc	24.1	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-49-01 (5-10)
Sample No: 22-2456-002

Date Collected: 04/12/22
Time Collected: 9:35
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/11/22		Preparation Date: 05/10/22		
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	5.2	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/10/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	95.1	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.6	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	106.5	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	107.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	63	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	60.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	87	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: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-49-02 (0-5)
Sample No: 22-2456-003

Date Collected: 04/12/22
Time Collected: 9:20
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	80.58		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-49-02 (0-5)
Sample No: 22-2456-003

Date Collected: 04/12/22
Time Collected: 9:20
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/27/22				
Preparation Date: 04/25/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-49-02 (0-5)
Sample No: 22-2456-003

Date Collected: 04/12/22
Time Collected: 9:20
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/27/22		Preparation Date: 04/25/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-49-02 (0-5)
Sample No: 22-2456-003

Date Collected: 04/12/22
Time Collected: 9:20
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/27/22		Preparation Date: 04/25/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 04/28/22		Preparation Date: 04/28/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.1	1.0	mg/kg	
Barium	60.0	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	18,700	50	mg/kg	
Chromium	15.5	0.5	mg/kg	
Cobalt	8.3	0.5	mg/kg	
Copper	18.5	0.5	mg/kg	
Iron	18,600	5.0	mg/kg	
Lead	13.2	0.5	mg/kg	
Magnesium	11,400	50	mg/kg	
Manganese	534	0.5	mg/kg	
Nickel	20.5	0.5	mg/kg	
Potassium	1,160	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	2,290	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	27.2	1.0	mg/kg	
Zinc	43.7	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-49-02 (0-5)
Sample No: 22-2456-003

Date Collected: 04/12/22
Time Collected: 9:20
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/11/22		Preparation Date: 05/10/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.054	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.060	0.005	mg/L	
Iron	61.6	0.1	mg/L	
Lead	0.027	0.005	mg/L	
Manganese	0.5	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/10/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.2	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	107	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	112.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	64	45	112
8270C	2-Fluorophenol (Surr)	%R:	55	41	84
8270C	d14-Terphenyl (Surr)	%R:	90	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	52	35	105
8270C	Phenol-d5 (surr)	%R:	71	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-49-02 (5-10)
Sample No: 22-2456-004

Date Collected: 04/12/22
Time Collected: 9:25
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	85.81		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-49-02 (5-10)
Sample No: 22-2456-004

Date Collected: 04/12/22
Time Collected: 9:25
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/27/22				
Preparation Date: 04/25/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-49-02 (5-10)
Sample No: 22-2456-004

Date Collected: 04/12/22
Time Collected: 9:25
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/27/22		Preparation Date: 04/25/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-49-02 (5-10)
Sample No: 22-2456-004

Date Collected: 04/12/22
Time Collected: 9:25
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/27/22		Preparation Date: 04/25/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/28/22		Preparation Date: 04/28/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.8	1.0	mg/kg	
Barium	28.4	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	82,200	50	mg/kg	
Chromium	9.4	0.5	mg/kg	
Cobalt	4.7	0.5	mg/kg	
Copper	10.2	0.5	mg/kg	
Iron	12,500	5.0	mg/kg	
Lead	6.1	0.5	mg/kg	
Magnesium	39,900	50	mg/kg	
Manganese	406	0.5	mg/kg	
Nickel	12.9	0.5	mg/kg	
Potassium	839	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	430	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	15.9	1.0	mg/kg	
Zinc	26.0	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-49-02 (5-10)
Sample No: 22-2456-004

Date Collected: 04/12/22
Time Collected: 9:25
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/29/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/29/22 10:30				
pH @ 25°C, 1:2	8.76		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/02/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/12/22				
Preparation Method 3010A				
Preparation Date: 05/11/22				
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	4.0	0.1	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: 05/09/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/02/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-49-02 (5-10)
Sample No: 22-2456-004

Date Collected: 04/12/22
Time Collected: 9:25
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/11/22		Preparation Date: 05/10/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	3.9	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/10/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.6	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.5	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	105.9	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	108	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	71	45	112
8270C	2-Fluorophenol (Surr)	%R:	60	41	84
8270C	d14-Terphenyl (Surr)	%R:	87	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	77	35	105
8270C	Phenol-d5 (surr)	%R:	74.5	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/11/22

Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05

Time Collected: 13:45

Sample ID: 3919-COV-49-05 (0-5)

Date Received: 04/12/22

Sample No: 22-2423-030

Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	90.05		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/20/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-49-05 (0-5)
Sample No: 22-2423-030

Date Collected: 04/11/22
Time Collected: 13:45
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/20/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/27/22				
Preparation Date: 04/24/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-49-05 (0-5)
Sample No: 22-2423-030

Date Collected: 04/11/22
Time Collected: 13:45
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/27/22		Preparation Date: 04/24/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-49-05 (0-5)
Sample No: 22-2423-030

Date Collected: 04/11/22
Time Collected: 13:45
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/27/22		Preparation Date: 04/24/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/02/22		Preparation Date: 04/26/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.5	1.0	mg/kg	
Barium	29.7	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	94,800	50	mg/kg	
Chromium	11.6	0.5	mg/kg	
Cobalt	5.6	0.5	mg/kg	
Copper	14.3	0.5	mg/kg	
Iron	12,200	5.0	mg/kg	
Lead	6.0	0.5	mg/kg	
Magnesium	42,600	50	mg/kg	
Manganese	339	0.5	mg/kg	
Nickel	14.5	0.5	mg/kg	
Potassium	1,300	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	932	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	18.8	1.0	mg/kg	
Zinc	32.2	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-49-05 (0-5)
Sample No: 22-2423-030

Date Collected: 04/11/22
Time Collected: 13:45
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/29/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/29/22 10:30				
pH @ 25°C, 1:2	8.93		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/21/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/06/22				
Preparation Method 3010A				
Preparation Date: 05/05/22				
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	1.4	0.1	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: 05/05/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/21/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-49-05 (0-5)
Sample No: 22-2423-030

Date Collected: 04/11/22
Time Collected: 13:45
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/09/22		Preparation Date: 05/05/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.023	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.028	0.005	mg/L	
Iron	22.4	0.1	mg/L	
Lead	0.009	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/06/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary: Surrogate Recovery				%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.9	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.4	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	100.3	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	86.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	78	45	112
8270C	2-Fluorophenol (Surr)	%R:	62	41	84
8270C	d14-Terphenyl (Surr)	%R:	97	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	74	35	105
8270C	Phenol-d5 (surr)	%R:	70	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-49-05 (5-10)
Sample No: 22-2423-031

Date Collected: 04/11/22
Time Collected: 13:46
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	92.38		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/20/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-49-05 (5-10)
Sample No: 22-2423-031

Date Collected: 04/11/22
Time Collected: 13:46
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/20/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/27/22				
Preparation Date: 04/24/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-49-05 (5-10)
Sample No: 22-2423-031

Date Collected: 04/11/22
Time Collected: 13:46
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/27/22		Preparation Date: 04/24/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-49-05 (5-10)
Sample No: 22-2423-031

Date Collected: 04/11/22
Time Collected: 13:46
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/27/22		Preparation Date: 04/24/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/02/22		Preparation Date: 04/26/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	1.6	1.0	mg/kg	
Barium	14.2	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	71,400	50	mg/kg	
Chromium	7.7	0.5	mg/kg	
Cobalt	3.2	0.5	mg/kg	
Copper	8.6	0.5	mg/kg	
Iron	7,830	5.0	mg/kg	
Lead	3.6	0.5	mg/kg	
Magnesium	34,900	50	mg/kg	
Manganese	214	0.5	mg/kg	
Nickel	8.9	0.5	mg/kg	
Potassium	804	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	358	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	13.1	1.0	mg/kg	
Zinc	15.4	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-49-05 (5-10)
Sample No: 22-2423-031

Date Collected: 04/11/22
Time Collected: 13:46
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/09/22		Preparation Date: 05/05/22		
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	0.007	0.005	mg/L	
Iron	4.2	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/06/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.4	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103.4	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	86	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	74	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	64	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	98	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	71	35 -	105
8270C	Phenol-d5 (surr)	%R:	71	50 -	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/11/22

Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05

Time Collected: 13:35

Sample ID: 3919-COV-49-06 (0-5)

Date Received: 04/12/22

Sample No: 22-2423-032

Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	86.18		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/20/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/11/22

Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05

Time Collected: 13:35

Sample ID: 3919-COV-49-06 (0-5)

Date Received: 04/12/22

Sample No: 22-2423-032

Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/20/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/27/22				
Preparation Date: 04/24/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-49-06 (0-5)
Sample No: 22-2423-032

Date Collected: 04/11/22
Time Collected: 13:35
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/27/22		Preparation Date: 04/24/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-49-06 (0-5)
Sample No: 22-2423-032

Date Collected: 04/11/22
Time Collected: 13:35
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/27/22		Preparation Date: 04/24/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/02/22		Preparation Date: 04/26/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	9.3	1.0	mg/kg	
Barium	53.4	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	16,000	50	mg/kg	
Chromium	25.3	0.5	mg/kg	
Cobalt	14.7	0.5	mg/kg	
Copper	27.2	0.5	mg/kg	
Iron	29,600	5.0	mg/kg	
Lead	22.2	0.5	mg/kg	
Magnesium	12,200	50	mg/kg	
Manganese	562	0.5	mg/kg	
Nickel	31.6	0.5	mg/kg	
Potassium	1,510	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	2,020	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	44.0	1.0	mg/kg	
Zinc	62.6	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-49-06 (0-5)
Sample No: 22-2423-032

Date Collected: 04/11/22
Time Collected: 13:35
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/09/22		Preparation Date: 05/05/22		
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	0.063	0.005	mg/L	
Iron	53.3	0.1	mg/L	
Lead	0.026	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/06/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.4	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	102.1	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	84.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	66	45	112
8270C	2-Fluorophenol (Surr)	%R:	58.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	97	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	68	35	105
8270C	Phenol-d5 (surr)	%R:	68	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-49-06 (5-10)
Sample No: 22-2423-033

Date Collected: 04/11/22
Time Collected: 13:36
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	88.32		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/20/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-49-06 (5-10)
Sample No: 22-2423-033

Date Collected: 04/11/22
Time Collected: 13:36
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/20/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/27/22				
Preparation Date: 04/24/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-49-06 (5-10)
Sample No: 22-2423-033

Date Collected: 04/11/22
Time Collected: 13:36
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/27/22		Preparation Date: 04/24/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-49-06 (5-10)
Sample No: 22-2423-033

Date Collected: 04/11/22
Time Collected: 13:36
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/27/22		Preparation Date: 04/24/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/02/22		Preparation Date: 04/26/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.7	1.0	mg/kg	
Barium	23.9	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	77,000	50	mg/kg	
Chromium	12.8	0.5	mg/kg	
Cobalt	12.0	0.5	mg/kg	
Copper	22.4	0.5	mg/kg	
Iron	17,800	5.0	mg/kg	
Lead	11.2	0.5	mg/kg	
Magnesium	42,200	50	mg/kg	
Manganese	368	0.5	mg/kg	
Nickel	23.7	0.5	mg/kg	
Potassium	1,460	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	445	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	16.5	1.0	mg/kg	
Zinc	58.4	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-49-06 (5-10)
Sample No: 22-2423-033

Date Collected: 04/11/22
Time Collected: 13:36
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/09/22		Preparation Date: 05/05/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.054	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.070	0.005	mg/L	
Iron	62.1	0.1	mg/L	
Lead	0.027	0.005	mg/L	
Manganese	0.3	0.1	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/06/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary: Surrogate Recovery				%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103.5	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	87	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	67	45	112
8270C	2-Fluorophenol (Surr)	%R:	63	41	84
8270C	d14-Terphenyl (Surr)	%R:	99	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	70	35	105
8270C	Phenol-d5 (surr)	%R:	71	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/11/22

Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05

Time Collected: 13:20

Sample ID: 3919-COV-49-08 (0-5)

Date Received: 04/12/22

Sample No: 22-2423-036

Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	81.49		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/22/22				
Acetone	203	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/11/22

Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05

Time Collected: 13:20

Sample ID: 3919-COV-49-08 (0-5)

Date Received: 04/12/22

Sample No: 22-2423-036

Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/22/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/26/22				
Preparation Date: 04/24/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-49-08 (0-5)
Sample No: 22-2423-036

Date Collected: 04/11/22
Time Collected: 13:20
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/26/22		Preparation Date: 04/24/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-49-08 (0-5)
Sample No: 22-2423-036

Date Collected: 04/11/22
Time Collected: 13:20
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/26/22		Preparation Date: 04/24/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/02/22		Preparation Date: 04/26/22		
Antimony	1.0	1.0	mg/kg	
Arsenic	5.0	1.0	mg/kg	
Barium	62.4	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	37,800	50	mg/kg	
Chromium	17.0	0.5	mg/kg	
Cobalt	8.7	0.5	mg/kg	
Copper	20.7	0.5	mg/kg	
Iron	17,300	5.0	mg/kg	
Lead	28.8	0.5	mg/kg	
Magnesium	21,300	50	mg/kg	
Manganese	417	0.5	mg/kg	
Nickel	20.0	0.5	mg/kg	
Potassium	1,310	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	792	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	26.8	1.0	mg/kg	
Zinc	51.5	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-49-08 (0-5)
Sample No: 22-2423-036

Date Collected: 04/11/22
Time Collected: 13:20
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/09/22		Preparation Date: 05/05/22		
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	0.008	0.005	mg/L	
Iron	5.4	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/06/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.5	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	86.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	71	45	112
8270C	2-Fluorophenol (Surr)	%R:	59	41	84
8270C	d14-Terphenyl (Surr)	%R:	93	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	66	35	105
8270C	Phenol-d5 (surr)	%R:	67	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-49-08 (5-10)
Sample No: 22-2423-037

Date Collected: 04/11/22
Time Collected: 13:21
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	70.71		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/20/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-49-08 (5-10)
Sample No: 22-2423-037

Date Collected: 04/11/22
Time Collected: 13:21
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/20/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/26/22				
Preparation Date: 04/24/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-49-08 (5-10)
Sample No: 22-2423-037

Date Collected: 04/11/22
Time Collected: 13:21
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/26/22		Preparation Date: 04/24/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-49-08 (5-10)
Sample No: 22-2423-037

Date Collected: 04/11/22
Time Collected: 13:21
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/26/22		Preparation Date: 04/24/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/02/22		Preparation Date: 04/26/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.4	1.0	mg/kg	
Barium	132	0.5	mg/kg	
Beryllium	0.9	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	7,890	50	mg/kg	
Chromium	23.1	0.5	mg/kg	
Cobalt	10.3	0.5	mg/kg	
Copper	31.7	0.5	mg/kg	
Iron	18,000	5.0	mg/kg	
Lead	13.8	0.5	mg/kg	
Magnesium	6,720	50	mg/kg	
Manganese	105	0.5	mg/kg	
Nickel	30.7	0.5	mg/kg	
Potassium	829	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,880	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	35.8	1.0	mg/kg	
Zinc	65.5	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-49-08 (5-10)
Sample No: 22-2423-037

Date Collected: 04/11/22
Time Collected: 13:21
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/09/22		Preparation Date: 05/05/22		
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	0.064	0.005	mg/L	
Iron	64.6	0.1	mg/L	
Lead	0.038	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/06/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary: Surrogate Recovery				%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.2	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.6	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	105.2	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	88	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	70	45	112
8270C	2-Fluorophenol (Surr)	%R:	70	41	84
8270C	d14-Terphenyl (Surr)	%R:	98	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	73	35	105
8270C	Phenol-d5 (surr)	%R:	77	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/12/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 9:56

Sample ID: 3919-COV-50-01 (0-5)

Date Received: 04/13/22

Sample No: 22-2456-007

Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	85.46		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-50-01 (0-5)
Sample No: 22-2456-007

Date Collected: 04/12/22
Time Collected: 9:56
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/27/22				
Preparation Date: 04/25/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-50-01 (0-5)
Sample No: 22-2456-007

Date Collected: 04/12/22
Time Collected: 9:56
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/27/22		Preparation Date: 04/25/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-50-01 (0-5)
Sample No: 22-2456-007

Date Collected: 04/12/22
Time Collected: 9:56
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/27/22		Preparation Date: 04/25/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 05/02/22		Preparation Date: 04/29/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.2	1.0	mg/kg	
Barium	36.0	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	61,200	50	mg/kg	
Chromium	15.1	0.5	mg/kg	
Cobalt	9.9	0.5	mg/kg	
Copper	20.4	0.5	mg/kg	
Iron	17,600	5.0	mg/kg	
Lead	10.1	0.5	mg/kg	
Magnesium	37,200	50	mg/kg	
Manganese	383	0.5	mg/kg	
Nickel	25.9	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	1,580	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	19.8	1.0	mg/kg	
Zinc	45.5	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-50-01 (0-5)
Sample No: 22-2456-007

Date Collected: 04/12/22
Time Collected: 9:56
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/11/22		Preparation Date: 05/10/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.123	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.129	0.005	mg/L	
Iron	130	0.1	mg/L	
Lead	0.051	0.005	mg/L	
Manganese	0.8	0.1	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/10/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.9	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.4	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	105.9	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	107	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	53	45	112
8270C	2-Fluorophenol (Surr)	%R:	51	41	84
8270C	d14-Terphenyl (Surr)	%R:	85	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	68	35	105
8270C	Phenol-d5 (surr)	%R:	64.5	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/12/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 9:57

Sample ID: 3919-COV-50-01 (5-10)

Date Received: 04/13/22

Sample No: 22-2456-008

Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	85.05		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-50-01 (5-10)
Sample No: 22-2456-008

Date Collected: 04/12/22
Time Collected: 9:57
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/27/22				
Preparation Date: 04/25/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-50-01 (5-10)
Sample No: 22-2456-008

Date Collected: 04/12/22
Time Collected: 9:57
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/27/22		Preparation Date: 04/25/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-50-01 (5-10)
Sample No: 22-2456-008

Date Collected: 04/12/22
Time Collected: 9:57
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/27/22		Preparation Date: 04/25/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/02/22		Preparation Date: 04/29/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.5	1.0	mg/kg	
Barium	27.6	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	113,000	50	mg/kg	
Chromium	12.0	0.5	mg/kg	
Cobalt	5.6	0.5	mg/kg	
Copper	13.4	0.5	mg/kg	
Iron	12,500	5.0	mg/kg	
Lead	10.9	0.5	mg/kg	
Magnesium	33,800	50	mg/kg	
Manganese	255	0.5	mg/kg	
Nickel	14.4	0.5	mg/kg	
Potassium	1,240	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	628	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	13.9	1.0	mg/kg	
Zinc	40.7	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-50-01 (5-10)
Sample No: 22-2456-008

Date Collected: 04/12/22
Time Collected: 9:57
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/29/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/29/22 10:30				
pH @ 25°C, 1:2	8.72		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/02/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/12/22				
Preparation Method 3010A				
Preparation Date: 05/11/22				
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	0.3	0.1	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: 05/09/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/02/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-50-01 (5-10)
Sample No: 22-2456-008

Date Collected: 04/12/22
Time Collected: 9:57
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/11/22		Preparation Date: 05/10/22		
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	< 0.005	0.005	mg/L	
Iron	5.2	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/10/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	95.9	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104.5	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	111	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	66	45	112
8270C	2-Fluorophenol (Surr)	%R:	60.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	87	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	78	35	105
8270C	Phenol-d5 (surr)	%R:	75.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-51-02 (0-5)
Sample No: 22-2330-031

Date Collected: 04/07/22
Time Collected: 12:35
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	81.62		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-51-02 (0-5)
Sample No: 22-2330-031

Date Collected: 04/07/22
Time Collected: 12:35
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/19/22				
Preparation Date: 04/17/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-51-02 (0-5)
Sample No: 22-2330-031

Date Collected: 04/07/22
Time Collected: 12:35
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/19/22		Preparation Date: 04/17/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-51-02 (0-5)
Sample No: 22-2330-031

Date Collected: 04/07/22
Time Collected: 12:35
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/19/22		Preparation Date: 04/17/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/20/22		Preparation Date: 04/13/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.4	1.0	mg/kg	
Barium	85.1	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,620	50	mg/kg	
Chromium	30.0	0.5	mg/kg	
Cobalt	12.9	0.5	mg/kg	
Copper	31.0	0.5	mg/kg	
Iron	32,600	5.0	mg/kg	
Lead	17.3	0.5	mg/kg	
Magnesium	7,080	50	mg/kg	
Manganese	670	0.5	mg/kg	
Nickel	39.5	0.5	mg/kg	
Potassium	2,450	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	170	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	38.9	1.0	mg/kg	
Zinc	63.6	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-51-02 (0-5)
Sample No: 22-2330-031

Date Collected: 04/07/22
Time Collected: 12:35
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/21/22		Preparation Date: 04/19/22		
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	0.008	0.005	mg/L	
Iron	9.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/20/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.9	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.3	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	106.6	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	105	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	71	45	112
8270C	2-Fluorophenol (Surr)	%R:	56	41	84
8270C	d14-Terphenyl (Surr)	%R:	89	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	85	35	105
8270C	Phenol-d5 (surr)	%R:	75	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/07/22

Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47

Time Collected: 12:36

Sample ID: 3919-COV-51-02 (5-10)

Date Received: 04/08/22

Sample No: 22-2330-032

Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	87.41		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-51-02 (5-10)
Sample No: 22-2330-032

Date Collected: 04/07/22
Time Collected: 12:36
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/19/22				
Preparation Date: 04/17/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-51-02 (5-10)
Sample No: 22-2330-032

Date Collected: 04/07/22
Time Collected: 12:36
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/19/22		Preparation Date: 04/17/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-51-02 (5-10)
Sample No: 22-2330-032

Date Collected: 04/07/22
Time Collected: 12:36
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/19/22		Preparation Date: 04/17/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/20/22		Preparation Date: 04/13/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.9	1.0	mg/kg	
Barium	29.6	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	81,400	50	mg/kg	
Chromium	16.6	0.5	mg/kg	
Cobalt	5.8	0.5	mg/kg	
Copper	13.4	0.5	mg/kg	
Iron	16,700	5.0	mg/kg	
Lead	6.3	0.5	mg/kg	
Magnesium	42,600	50	mg/kg	
Manganese	307	0.5	mg/kg	
Nickel	18.5	0.5	mg/kg	
Potassium	2,560	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	313	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	19.4	1.0	mg/kg	
Zinc	39.2	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-51-02 (5-10)
Sample No: 22-2330-032

Date Collected: 04/07/22
Time Collected: 12:36
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/21/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/28/22 10:00				
pH @ 25°C, 1:2	8.92		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/13/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/19/22				
Preparation Method 3010A				
Preparation Date: 04/18/22				
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	0.7	0.1	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: 04/21/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/13/22				
SPLP Metals Extraction	Complete			
Arsenic	0.014	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-51-02 (5-10)
Sample No: 22-2330-032

Date Collected: 04/07/22
Time Collected: 12:36
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/21/22		Preparation Date: 04/19/22		
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	0.033	0.005	mg/L	
Iron	43.8	0.1	mg/L	
Lead	0.011	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/20/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary: Surrogate Recovery				%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.8	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	106.5	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	106	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	64	45	112
8270C	2-Fluorophenol (Surr)	%R:	71.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	78	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	77	35	105
8270C	Phenol-d5 (surr)	%R:	88.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-51-02 (10-15)
Sample No: 22-2330-033

Date Collected: 04/07/22
Time Collected: 12:37
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	87.64		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/07/22

Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47

Time Collected: 12:37

Sample ID: 3919-COV-51-02 (10-15)

Date Received: 04/08/22

Sample No: 22-2330-033

Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/19/22				
Preparation Date: 04/17/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-51-02 (10-15)
Sample No: 22-2330-033

Date Collected: 04/07/22
Time Collected: 12:37
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/19/22		Preparation Date: 04/17/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/07/22

Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47

Time Collected: 12:37

Sample ID: 3919-COV-51-02 (10-15)

Date Received: 04/08/22

Sample No: 22-2330-033

Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/19/22		Preparation Date: 04/17/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 04/20/22		Preparation Date: 04/13/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.9	1.0	mg/kg	
Barium	30.5	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	95,500	50	mg/kg	
Chromium	19.1	0.5	mg/kg	
Cobalt	10.0	0.5	mg/kg	
Copper	23.0	0.5	mg/kg	
Iron	19,900	5.0	mg/kg	
Lead	10.0	0.5	mg/kg	
Magnesium	49,600	50	mg/kg	
Manganese	450	0.5	mg/kg	
Nickel	26.6	0.5	mg/kg	
Potassium	3,120	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	220	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	23.4	1.0	mg/kg	
Zinc	43.4	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-51-02 (10-15)
Sample No: 22-2330-033

Date Collected: 04/07/22
Time Collected: 12:37
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/21/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/28/22 10:00				
pH @ 25°C, 1:2	8.08		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/13/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/19/22				
Preparation Method 3010A				
Preparation Date: 04/18/22				
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	1.9	0.1	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: 04/21/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/13/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-51-02 (10-15)
Sample No: 22-2330-033

Date Collected: 04/07/22
Time Collected: 12:37
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/21/22		Preparation Date: 04/19/22		
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	2.2	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/20/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	87.6	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	97.5	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	107.2	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	108.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	69	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	63.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	83	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	78	35 -	105
8270C	Phenol-d5 (surr)	%R:	78	50 -	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 13:40

Sample ID: 51-08 (0-4)

Date Received: 04/15/22

Sample No: 22-2551-040

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/21/22				
Total Solids	80.37		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 51-08 (0-4)
Sample No: 22-2551-040

Date Collected: 04/14/22
Time Collected: 13:40
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22				
Preparation Date: 04/29/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 13:40

Sample ID: 51-08 (0-4)

Date Received: 04/15/22

Sample No: 22-2551-040

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/07/22		Preparation Date: 04/29/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 51-08 (0-4)
Sample No: 22-2551-040

Date Collected: 04/14/22
Time Collected: 13:40
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22				Preparation Date: 04/29/22
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/10/22				Preparation Date: 05/09/22
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.1	1.0	mg/kg	
Barium	37.0	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	54,200	50	mg/kg	
Chromium	13.5	0.5	mg/kg	
Cobalt	7.1	0.5	mg/kg	
Copper	16.1	0.5	mg/kg	
Iron	14,800	5.0	mg/kg	
Lead	8.2	0.5	mg/kg	
Magnesium	26,700	50	mg/kg	
Manganese	287	0.5	mg/kg	
Nickel	15.4	0.5	mg/kg	
Potassium	1,200	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,750	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	22.2	1.0	mg/kg	
Zinc	34.7	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 51-08 (0-4)
Sample No: 22-2551-040

Date Collected: 04/14/22
Time Collected: 13:40
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/24/22		Preparation Date: 05/23/22		
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	0.025	0.005	mg/L	
Iron	24.0	0.1	mg/L	
Lead	0.012	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/19/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)			86	117
5035A/8260B	d8-Toluene (Surr)			90	110
5035A/8260B	Dibromofluoromethane (Surr)			77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	90.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	74	45	112
8270C	2-Fluorophenol (Surr)	%R:	63	41	84
8270C	d14-Terphenyl (Surr)	%R:	99	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	59	35	105
8270C	Phenol-d5 (surr)	%R:	72	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-52-01 (0-5)
Sample No: 22-2456-013

Date Collected: 04/12/22
Time Collected: 12:35
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	78.75		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-52-01 (0-5)
Sample No: 22-2456-013

Date Collected: 04/12/22
Time Collected: 12:35
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/27/22				
Preparation Date: 04/25/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-52-01 (0-5)
Sample No: 22-2456-013

Date Collected: 04/12/22
Time Collected: 12:35
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/27/22		Preparation Date: 04/25/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-52-01 (0-5)
Sample No: 22-2456-013

Date Collected: 04/12/22
Time Collected: 12:35
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/27/22		Preparation Date: 04/25/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 05/02/22		Preparation Date: 04/29/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.9	1.0	mg/kg	
Barium	57.6	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	17,500	50	mg/kg	
Chromium	16.1	0.5	mg/kg	
Cobalt	10.1	0.5	mg/kg	
Copper	15.4	0.5	mg/kg	
Iron	16,000	5.0	mg/kg	
Lead	33.2	0.5	mg/kg	
Magnesium	10,200	50	mg/kg	
Manganese	525	0.5	mg/kg	
Nickel	17.7	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	945	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	22.9	1.0	mg/kg	
Zinc	50.2	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-52-01 (0-5)
Sample No: 22-2456-013

Date Collected: 04/12/22
Time Collected: 12:35
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/12/22		Preparation Date: 05/11/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.021	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.022	0.005	mg/L	
Iron	17.5	0.1	mg/L	
Lead	0.015	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/10/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.4	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.8	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	106.8	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	88.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	81	45	112
8270C	2-Fluorophenol (Surr)	%R:	66	41	84
8270C	d14-Terphenyl (Surr)	%R:	101	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	73	35	105
8270C	Phenol-d5 (surr)	%R:	80.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-52-01 (5-10)
Sample No: 22-2456-014

Date Collected: 04/12/22
Time Collected: 12:40
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/20/22				
Total Solids	58.4		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-52-01 (5-10)
Sample No: 22-2456-014

Date Collected: 04/12/22
Time Collected: 12:40
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/27/22				
Preparation Date: 04/25/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-52-01 (5-10)
Sample No: 22-2456-014

Date Collected: 04/12/22
Time Collected: 12:40
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/27/22		Preparation Date: 04/25/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-52-01 (5-10)
Sample No: 22-2456-014

Date Collected: 04/12/22
Time Collected: 12:40
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/27/22		Preparation Date: 04/25/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/02/22		Preparation Date: 04/29/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.8	1.0	mg/kg	
Barium	101	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	10,300	50	mg/kg	
Chromium	21.8	0.5	mg/kg	
Cobalt	9.8	0.5	mg/kg	
Copper	22.2	0.5	mg/kg	
Iron	19,300	5.0	mg/kg	
Lead	15.6	0.5	mg/kg	
Magnesium	6,230	50	mg/kg	
Manganese	263	0.5	mg/kg	
Nickel	24.3	0.5	mg/kg	
Potassium	1,690	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	762	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	30.9	1.0	mg/kg	
Zinc	65.8	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-52-01 (5-10)
Sample No: 22-2456-014

Date Collected: 04/12/22
Time Collected: 12:40
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/12/22		Preparation Date: 05/11/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.005	0.005	mg/L	
Iron	3.3	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/10/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.4	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	105.7	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	86	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	73	45	112
8270C	2-Fluorophenol (Surr)	%R:	65	41	84
8270C	d14-Terphenyl (Surr)	%R:	99	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	60	35	105
8270C	Phenol-d5 (surr)	%R:	77	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-52-03 (0-4)
Sample No: 22-2456-017

Date Collected: 04/12/22
Time Collected: 13:15
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	86.42		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-52-03 (0-4)
Sample No: 22-2456-017

Date Collected: 04/12/22
Time Collected: 13:15
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/27/22				
Preparation Date: 04/25/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-52-03 (0-4)
Sample No: 22-2456-017

Date Collected: 04/12/22
Time Collected: 13:15
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/27/22		Preparation Date: 04/25/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-52-03 (0-4)
Sample No: 22-2456-017

Date Collected: 04/12/22
Time Collected: 13:15
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/27/22		Preparation Date: 04/25/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 05/02/22		Preparation Date: 04/29/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.7	1.0	mg/kg	
Barium	59.1	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	57,500	50	mg/kg	
Chromium	17.4	0.5	mg/kg	
Cobalt	7.2	0.5	mg/kg	
Copper	20.2	0.5	mg/kg	
Iron	19,300	5.0	mg/kg	
Lead	11.4	0.5	mg/kg	
Magnesium	26,200	50	mg/kg	
Manganese	353	0.5	mg/kg	
Nickel	25.2	0.5	mg/kg	
Potassium	1,400	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,160	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	25.8	1.0	mg/kg	
Zinc	44.7	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-52-03 (0-4)
Sample No: 22-2456-017

Date Collected: 04/12/22
Time Collected: 13:15
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/02/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/29/22 10:30				
pH @ 25°C, 1:2	8.31		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/03/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/12/22				
Preparation Method 3010A Preparation Date: 05/11/22				
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	6.0	0.1	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: 05/09/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/03/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-52-03 (0-4)
Sample No: 22-2456-017

Date Collected: 04/12/22
Time Collected: 13:15
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/12/22		Preparation Date: 05/11/22		
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	0.010	0.005	mg/L	
Iron	9.8	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/10/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.6	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	105.6	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	94.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	83	45	112
8270C	2-Fluorophenol (Surr)	%R:	75	41	84
8270C	d14-Terphenyl (Surr)	%R:	109	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	83	35	105
8270C	Phenol-d5 (surr)	%R:	88.5	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/12/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 13:20

Sample ID: 3919-COV-52-03 (4-8)

Date Received: 04/13/22

Sample No: 22-2456-018

Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	87.80		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-52-03 (4-8)
Sample No: 22-2456-018

Date Collected: 04/12/22
Time Collected: 13:20
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/27/22				
Preparation Date: 04/25/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-52-03 (4-8)
Sample No: 22-2456-018

Date Collected: 04/12/22
Time Collected: 13:20
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/27/22		Preparation Date: 04/25/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-52-03 (4-8)
Sample No: 22-2456-018

Date Collected: 04/12/22
Time Collected: 13:20
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/27/22		Preparation Date: 04/25/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 05/02/22		Preparation Date: 04/29/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.7	1.0	mg/kg	
Barium	25.9	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	74,700	50	mg/kg	
Chromium	10.4	0.5	mg/kg	
Cobalt	4.8	0.5	mg/kg	
Copper	12.6	0.5	mg/kg	
Iron	11,400	5.0	mg/kg	
Lead	5.3	0.5	mg/kg	
Magnesium	35,700	50	mg/kg	
Manganese	305	0.5	mg/kg	
Nickel	13.3	0.5	mg/kg	
Potassium	1,260	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	964	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	16.6	1.0	mg/kg	
Zinc	30.0	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-52-03 (4-8)
Sample No: 22-2456-018

Date Collected: 04/12/22
Time Collected: 13:20
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/12/22		Preparation Date: 05/11/22		
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	0.037	0.005	mg/L	
Iron	29.8	0.1	mg/L	
Lead	0.009	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/10/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>Low</i>	<i>High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 97.7	86	117	
5035A/8260B	d8-Toluene (Surr)	%R: 100.2	90	110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 105.3	77	120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 90	59	131	
8270C	2-Fluorobiphenyl (Surr)	%R: 80	45	112	
8270C	2-Fluorophenol (Surr)	%R: 67	41	84	
8270C	d14-Terphenyl (Surr)	%R: 101	56	120	
8270C	d5-Nitrobenzene (Surr)	%R: 75	35	105	
8270C	Phenol-d5 (surr)	%R: 78	50	100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-52-06 (0-4)
Sample No: 22-2456-023

Date Collected: 04/12/22
Time Collected: 13:50
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	90.15		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-52-06 (0-4)
Sample No: 22-2456-023

Date Collected: 04/12/22
Time Collected: 13:50
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/27/22				
Preparation Date: 04/25/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-52-06 (0-4)
Sample No: 22-2456-023

Date Collected: 04/12/22
Time Collected: 13:50
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/27/22		Preparation Date: 04/25/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-52-06 (0-4)
Sample No: 22-2456-023

Date Collected: 04/12/22
Time Collected: 13:50
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/27/22		Preparation Date: 04/25/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 05/02/22		Preparation Date: 04/29/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.2	1.0	mg/kg	
Barium	28.4	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	77,400	50	mg/kg	
Chromium	11.3	0.5	mg/kg	
Cobalt	4.8	0.5	mg/kg	
Copper	16.5	0.5	mg/kg	
Iron	13,600	5.0	mg/kg	
Lead	6.4	0.5	mg/kg	
Magnesium	36,100	50	mg/kg	
Manganese	264	0.5	mg/kg	
Nickel	13.3	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	542	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	20.1	1.0	mg/kg	
Zinc	28.6	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-52-06 (0-4)
Sample No: 22-2456-023

Date Collected: 04/12/22
Time Collected: 13:50
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/12/22		Preparation Date: 05/11/22		
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	0.020	0.005	mg/L	
Iron	19.2	0.1	mg/L	
Lead	0.017	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/11/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.8	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	105.7	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	111	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	70	45	112
8270C	2-Fluorophenol (Surr)	%R:	54	41	84
8270C	d14-Terphenyl (Surr)	%R:	92	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	72	35	105
8270C	Phenol-d5 (surr)	%R:	67	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-52-06 (4-8)
Sample No: 22-2456-024

Date Collected: 04/12/22
Time Collected: 13:55
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	88.68		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-52-06 (4-8)
Sample No: 22-2456-024

Date Collected: 04/12/22
Time Collected: 13:55
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/27/22				
Preparation Date: 04/26/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-52-06 (4-8)
Sample No: 22-2456-024

Date Collected: 04/12/22
Time Collected: 13:55
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/27/22		Preparation Date: 04/26/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-52-06 (4-8)
Sample No: 22-2456-024

Date Collected: 04/12/22
Time Collected: 13:55
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/27/22		Preparation Date: 04/26/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/02/22		Preparation Date: 04/29/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.8	1.0	mg/kg	
Barium	28.5	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	83,900	50	mg/kg	
Chromium	11.7	0.5	mg/kg	
Cobalt	6.0	0.5	mg/kg	
Copper	13.8	0.5	mg/kg	
Iron	11,800	5.0	mg/kg	
Lead	5.6	0.5	mg/kg	
Magnesium	38,500	50	mg/kg	
Manganese	339	0.5	mg/kg	
Nickel	15.5	0.5	mg/kg	
Potassium	1,500	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	17.6	1.0	mg/kg	
Zinc	27.7	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-52-06 (4-8)
Sample No: 22-2456-024

Date Collected: 04/12/22
Time Collected: 13:55
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/02/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/29/22 10:30				
pH @ 25°C, 1:2	8.92		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/03/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/13/22				
Preparation Method 3010A Preparation Date: 05/12/22				
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	3.8	0.1	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: 05/10/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/03/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-52-06 (4-8)
Sample No: 22-2456-024

Date Collected: 04/12/22
Time Collected: 13:55
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/12/22		Preparation Date: 05/11/22		
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	0.010	0.005	mg/L	
Iron	7.7	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/11/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.3	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	106.1	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	85	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	69	45	112
8270C	2-Fluorophenol (Surr)	%R:	58	41	84
8270C	d14-Terphenyl (Surr)	%R:	97	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	70	35	105
8270C	Phenol-d5 (surr)	%R:	66.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-52-07 (0-4)
Sample No: 22-2456-025

Date Collected: 04/12/22
Time Collected: 14:00
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	91.46		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-52-07 (0-4)
Sample No: 22-2456-025

Date Collected: 04/12/22
Time Collected: 14:00
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/27/22				
Preparation Date: 04/26/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-52-07 (0-4)
Sample No: 22-2456-025

Date Collected: 04/12/22
Time Collected: 14:00
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/27/22		Preparation Date: 04/26/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-52-07 (0-4)
Sample No: 22-2456-025

Date Collected: 04/12/22
Time Collected: 14:00
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/27/22		Preparation Date: 04/26/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/02/22		Preparation Date: 04/29/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.3	1.0	mg/kg	
Barium	47.1	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	34,300	50	mg/kg	
Chromium	17.1	0.5	mg/kg	
Cobalt	6.6	0.5	mg/kg	
Copper	17.5	0.5	mg/kg	
Iron	15,400	5.0	mg/kg	
Lead	11.5	0.5	mg/kg	
Magnesium	18,900	50	mg/kg	
Manganese	415	0.5	mg/kg	
Nickel	18.7	0.5	mg/kg	
Potassium	1,310	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	23.8	1.0	mg/kg	
Zinc	38.7	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-52-07 (0-4)
Sample No: 22-2456-025

Date Collected: 04/12/22
Time Collected: 14:00
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/12/22		Preparation Date: 05/11/22		
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	0.032	0.005	mg/L	
Iron	35.2	0.1	mg/L	
Lead	0.015	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/11/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary: Surrogate Recovery				%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.4	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.6	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	108.2	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	90.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	75	45	112
8270C	2-Fluorophenol (Surr)	%R:	59.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	104	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	72	35	105
8270C	Phenol-d5 (surr)	%R:	70.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-52-07 (4-8)
Sample No: 22-2456-026

Date Collected: 04/12/22
Time Collected: 14:05
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	90.28		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-52-07 (4-8)
Sample No: 22-2456-026

Date Collected: 04/12/22
Time Collected: 14:05
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/27/22				
Preparation Date: 04/26/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-52-07 (4-8)
Sample No: 22-2456-026

Date Collected: 04/12/22
Time Collected: 14:05
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/27/22		Preparation Date: 04/26/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-52-07 (4-8)
Sample No: 22-2456-026

Date Collected: 04/12/22
Time Collected: 14:05
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/27/22		Preparation Date: 04/26/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 05/04/22		Preparation Date: 04/30/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	1.1	1.0	mg/kg	
Barium	14.6	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	5.7	0.5	mg/kg	
Cobalt	3.7	0.5	mg/kg	
Copper	6.6	0.5	mg/kg	
Iron	7,500	5.0	mg/kg	
Lead	2.9	0.5	mg/kg	
Magnesium	23,000	50	mg/kg	
Manganese	175	0.5	mg/kg	
Nickel	7.2	0.5	mg/kg	
Potassium	507	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	208	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	18.1	1.0	mg/kg	
Zinc	14.4	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-52-07 (4-8)
Sample No: 22-2456-026

Date Collected: 04/12/22
Time Collected: 14:05
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/02/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/02/22 8:40				
pH @ 25°C, 1:2	8.97		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/03/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/13/22				
Preparation Method 3010A				
Preparation Date: 05/12/22				
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	0.8	0.1	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: 05/10/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/03/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-52-07 (4-8)
Sample No: 22-2456-026

Date Collected: 04/12/22
Time Collected: 14:05
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/12/22		Preparation Date: 05/11/22		
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	0.019	0.005	mg/L	
Iron	15.5	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/11/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.6	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.5	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104.8	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	84.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	71	45	112
8270C	2-Fluorophenol (Surr)	%R:	61.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	96	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	74	35	105
8270C	Phenol-d5 (surr)	%R:	69	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 10:18

Sample ID: 52-11 (0-4)

Date Received: 04/15/22

Sample No: 22-2551-010

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/20/22				
Total Solids	86.30		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/25/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 52-11 (0-4)
Sample No: 22-2551-010

Date Collected: 04/14/22
Time Collected: 10:18
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/25/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22				
Preparation Date: 04/28/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 10:18

Sample ID: 52-11 (0-4)

Date Received: 04/15/22

Sample No: 22-2551-010

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/07/22		Preparation Date: 04/28/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	04/14/22
Project ID:	IDOT 199-014 WO #5 IL 47 Lakewood	Time Collected:	10:18
Sample ID:	52-11 (0-4)	Date Received:	04/15/22
Sample No:	22-2551-010	Date Reported:	05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22				Preparation Date: 04/28/22
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/05/22				Preparation Date: 05/04/22
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.2	1.0	mg/kg	
Barium	39.8	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	50,700	50	mg/kg	
Chromium	15.7	0.5	mg/kg	
Cobalt	7.7	0.5	mg/kg	
Copper	17.8	0.5	mg/kg	
Iron	16,200	5.0	mg/kg	
Lead	9.9	0.5	mg/kg	
Magnesium	25,600	50	mg/kg	
Manganese	294	0.5	mg/kg	
Nickel	20.6	0.5	mg/kg	
Potassium	1,510	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	21.3	1.0	mg/kg	
Zinc	37.4	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 52-11 (0-4)
Sample No: 22-2551-010

Date Collected: 04/14/22
Time Collected: 10:18
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/19/22		Preparation Date: 05/19/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	0.007	0.005	mg/L	
Chromium	0.104	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	0.056	0.005	mg/L	
Manganese	0.8	0.1	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/18/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	95.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.4	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	109.3	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	118.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	68	45	112
8270C	2-Fluorophenol (Surr)	%R:	61.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	91	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	85	35	105
8270C	Phenol-d5 (surr)	%R:	76.5	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 10:20

Sample ID: 52-11 (4-8)

Date Received: 04/15/22

Sample No: 22-2551-011

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/20/22				
Total Solids	79.28		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/25/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 52-11 (4-8)
Sample No: 22-2551-011

Date Collected: 04/14/22
Time Collected: 10:20
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/25/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22				
Preparation Date: 04/28/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 52-11 (4-8)
Sample No: 22-2551-011

Date Collected: 04/14/22
Time Collected: 10:20
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/07/22		Preparation Date: 04/28/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 10:20

Sample ID: 52-11 (4-8)

Date Received: 04/15/22

Sample No: 22-2551-011

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22		Preparation Date: 04/28/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/05/22		Preparation Date: 05/04/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.3	1.0	mg/kg	
Barium	91.4	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	4,140	50	mg/kg	
Chromium	16.2	0.5	mg/kg	
Cobalt	8.0	0.5	mg/kg	
Copper	14.1	0.5	mg/kg	
Iron	16,100	5.0	mg/kg	
Lead	14.1	0.5	mg/kg	
Magnesium	3,020	50	mg/kg	
Manganese	103	0.5	mg/kg	
Nickel	13.7	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	1,010	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	29.2	1.0	mg/kg	
Zinc	42.7	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 52-11 (4-8)
Sample No: 22-2551-011

Date Collected: 04/14/22
Time Collected: 10:20
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/19/22		Preparation Date: 05/19/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.021	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.018	0.005	mg/L	
Iron	16.3	0.1	mg/L	
Lead	0.009	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/18/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.8	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	111.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	116.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	65	45	112
8270C	2-Fluorophenol (Surr)	%R:	60	41	84
8270C	d14-Terphenyl (Surr)	%R:	91	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	77	35	105
8270C	Phenol-d5 (surr)	%R:	77	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 10:22

Sample ID: 52-12 (0-4)

Date Received: 04/15/22

Sample No: 22-2551-012

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/20/22				
Total Solids	83.95		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
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	



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Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22				
Preparation Date: 04/28/22				
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	



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Sample No: 22-2551-012

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/07/22		Preparation Date: 04/28/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



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Time Collected: 10:22
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22		Preparation Date: 04/28/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/05/22		Preparation Date: 05/04/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.9	1.0	mg/kg	
Barium	74.5	0.5	mg/kg	
Beryllium	0.9	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	2,160	50	mg/kg	
Chromium	29.2	0.5	mg/kg	
Cobalt	11.3	0.5	mg/kg	
Copper	28.9	0.5	mg/kg	
Iron	33,500	5.0	mg/kg	
Lead	12.9	0.5	mg/kg	
Magnesium	4,650	50	mg/kg	
Manganese	257	0.5	mg/kg	
Nickel	28.5	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	1,410	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	45.5	1.0	mg/kg	
Zinc	54.7	1.0	mg/kg	



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Date Collected: 04/14/22
Time Collected: 10:22
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/19/22		Preparation Date: 05/19/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	0.006	0.005	mg/L	
Chromium	0.094	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.094	0.005	mg/L	
Iron	102	0.1	mg/L	
Lead	0.045	0.005	mg/L	
Manganese	0.7	0.1	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/18/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>Low</i>	<i>High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)		86	117	
5035A/8260B	d8-Toluene (Surr)		90	110	
5035A/8260B	Dibromofluoromethane (Surr)		77	120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 118	59	131	
8270C	2-Fluorobiphenyl (Surr)	%R: 70	45	112	
8270C	2-Fluorophenol (Surr)	%R: 62.5	41	84	
8270C	d14-Terphenyl (Surr)	%R: 89	56	120	
8270C	d5-Nitrobenzene (Surr)	%R: 83	35	105	
8270C	Phenol-d5 (surr)	%R: 78	50	100	



Analytical Report

Client: HUFF & HUFF INC.

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Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 10:24

Sample ID: 52-12 (4-8)

Date Received: 04/15/22

Sample No: 22-2551-013

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/20/22				
Total Solids	82.12		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
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	



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Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22				
Preparation Date: 04/28/22				
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	



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Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/07/22		Preparation Date: 04/28/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



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Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22		Preparation Date: 04/28/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/05/22		Preparation Date: 05/04/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.0	1.0	mg/kg	
Barium	60.1	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	13,400	50	mg/kg	
Chromium	16.5	0.5	mg/kg	
Cobalt	6.3	0.5	mg/kg	
Copper	15.9	0.5	mg/kg	
Iron	13,000	5.0	mg/kg	
Lead	9.8	0.5	mg/kg	
Magnesium	8,340	50	mg/kg	
Manganese	189	0.5	mg/kg	
Nickel	18.3	0.5	mg/kg	
Potassium	784	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	349	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	26.9	1.0	mg/kg	
Zinc	33.7	1.0	mg/kg	



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Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/19/22		Preparation Date: 05/19/22		
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	5.4	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/18/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>Low</i>	<i>High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)		86	117	
5035A/8260B	d8-Toluene (Surr)		90	110	
5035A/8260B	Dibromofluoromethane (Surr)		77	120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 118	59	131	
8270C	2-Fluorobiphenyl (Surr)	%R: 66	45	112	
8270C	2-Fluorophenol (Surr)	%R: 65.5	41	84	
8270C	d14-Terphenyl (Surr)	%R: 89	56	120	
8270C	d5-Nitrobenzene (Surr)	%R: 83	35	105	
8270C	Phenol-d5 (surr)	%R: 81	50	100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-53-01 (0-5)
Sample No: 22-2456-027

Date Collected: 04/12/22
Time Collected: 12:00
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	89.96		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-53-01 (0-5)
Sample No: 22-2456-027

Date Collected: 04/12/22
Time Collected: 12:00
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/27/22				
Preparation Date: 04/26/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-53-01 (0-5)
Sample No: 22-2456-027

Date Collected: 04/12/22
Time Collected: 12:00
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/27/22		Preparation Date: 04/26/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-53-01 (0-5)
Sample No: 22-2456-027

Date Collected: 04/12/22
Time Collected: 12:00
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/27/22		Preparation Date: 04/26/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/04/22		Preparation Date: 04/30/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.9	1.0	mg/kg	
Barium	35.0	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	59,600	50	mg/kg	
Chromium	13.2	0.5	mg/kg	
Cobalt	7.8	0.5	mg/kg	
Copper	18.6	0.5	mg/kg	
Iron	17,500	5.0	mg/kg	
Lead	11.6	0.5	mg/kg	
Magnesium	30,200	50	mg/kg	
Manganese	465	0.5	mg/kg	
Nickel	17.8	0.5	mg/kg	
Potassium	1,230	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	665	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	19.8	1.0	mg/kg	
Zinc	35.8	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-53-01 (0-5)
Sample No: 22-2456-027

Date Collected: 04/12/22
Time Collected: 12:00
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/16/22		Preparation Date: 05/11/22		
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	0.028	0.005	mg/L	
Iron	22.8	0.1	mg/L	
Lead	0.030	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/11/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.1	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	106.2	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	85	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	73	45	112
8270C	2-Fluorophenol (Surr)	%R:	65	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: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-53-01 (5-10)
Sample No: 22-2456-028

Date Collected: 04/12/22
Time Collected: 12:05
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	88.76		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-53-01 (5-10)
Sample No: 22-2456-028

Date Collected: 04/12/22
Time Collected: 12:05
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/28/22				
Preparation Date: 04/26/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-53-01 (5-10)
Sample No: 22-2456-028

Date Collected: 04/12/22
Time Collected: 12:05
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/28/22		Preparation Date: 04/26/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-53-01 (5-10)
Sample No: 22-2456-028

Date Collected: 04/12/22
Time Collected: 12:05
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/28/22		Preparation Date: 04/26/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 05/04/22		Preparation Date: 04/30/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	< 1.0	1.0	mg/kg	
Barium	27.4	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	91,800	50	mg/kg	
Chromium	10.4	0.5	mg/kg	
Cobalt	4.8	0.5	mg/kg	
Copper	11.9	0.5	mg/kg	
Iron	11,100	5.0	mg/kg	
Lead	5.1	0.5	mg/kg	
Magnesium	41,300	50	mg/kg	
Manganese	272	0.5	mg/kg	
Nickel	12.4	0.5	mg/kg	
Potassium	1,330	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	179	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	15.3	1.0	mg/kg	
Zinc	23.5	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-53-01 (5-10)
Sample No: 22-2456-028

Date Collected: 04/12/22
Time Collected: 12:05
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/02/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/02/22 8:40				
pH @ 25°C, 1:2	8.36		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/03/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/13/22				
Preparation Method 3010A				
Preparation Date: 05/12/22				
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	1.7	0.1	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: 05/10/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/03/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-53-01 (5-10)
Sample No: 22-2456-028

Date Collected: 04/12/22
Time Collected: 12:05
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/16/22		Preparation Date: 05/11/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	0.7	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/11/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.9	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	107	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	87	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	74	45	112
8270C	2-Fluorophenol (Surr)	%R:	65	41	84
8270C	d14-Terphenyl (Surr)	%R:	98	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	75	35	105
8270C	Phenol-d5 (surr)	%R:	75	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-53-01 (10-15.5)
Sample No: 22-2456-029

Date Collected: 04/12/22
Time Collected: 12:10
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	90.00		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

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Sample ID: 3919-COV-53-01 (10-15.5)
Sample No: 22-2456-029

Date Collected: 04/12/22
Time Collected: 12:10
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/28/22				
Preparation Date: 04/26/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

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Sample ID: 3919-COV-53-01 (10-15.5)
Sample No: 22-2456-029

Date Collected: 04/12/22
Time Collected: 12:10
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/28/22		Preparation Date: 04/26/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
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Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/28/22				Preparation Date: 04/26/22
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/04/22				Preparation Date: 04/30/22
Antimony	< 1.0	1.0	mg/kg	
Arsenic	1.1	1.0	mg/kg	
Barium	21.4	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	83,600	50	mg/kg	
Chromium	8.3	0.5	mg/kg	
Cobalt	3.7	0.5	mg/kg	
Copper	10.8	0.5	mg/kg	
Iron	9,260	5.0	mg/kg	
Lead	3.6	0.5	mg/kg	
Magnesium	39,400	50	mg/kg	
Manganese	237	0.5	mg/kg	
Nickel	9.7	0.5	mg/kg	
Potassium	1,100	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	139	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	12.7	1.0	mg/kg	
Zinc	39.7	1.0	mg/kg	