

*IDOT PTB 178-008 WO#33A
Huff & Huff, Inc.
PSI Report - Sealed LPC Forms 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: FAU 2170 East Ave (55th Street to Joliet Rd) Office Phone Number, if available: 847-705-4122

Physical Site Location (address, including number and street):
2673V-33 (SW corner of East Ave. and 55th Street), 2673V-49 (SW quadrant of Joliet Rd and East Ave)

City: Countryside, Hodgkins State: IL Zip Code: 60525

County: Cook Township: Lyons

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

Latitude: 41.79078 Longitude: - 87.8589
(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: _____ BOW: _____ BOA: _____

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

Estimated Volume of debris (cu. Yd.): 922

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.

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 Fig 4-1 in the Final PSI Rpt and borings 2673V-33-01 (W. 55th Street 309+00, 35 Right) and 2673V-49-03 (East Avenue 203+25 35 Left).

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 #20-0942, 20-0971, 20-0977, and 20-1014. 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))

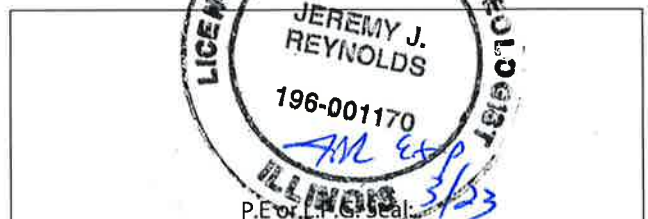
Company Name: Huff & Huff, Inc. / GZA GeoEnvironmental, Inc.
Street Address: 915 Harger Road, Suite 330
City: Oak Brook State: IL Zip Code: 60523
Phone: 630-684-9100

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



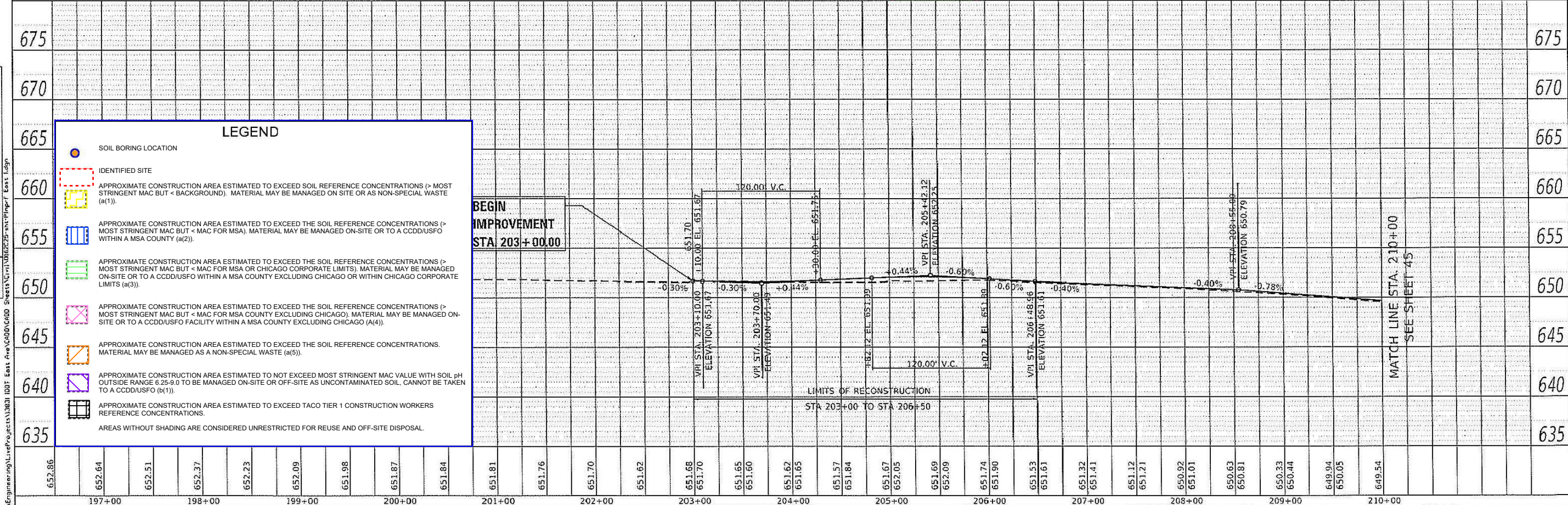
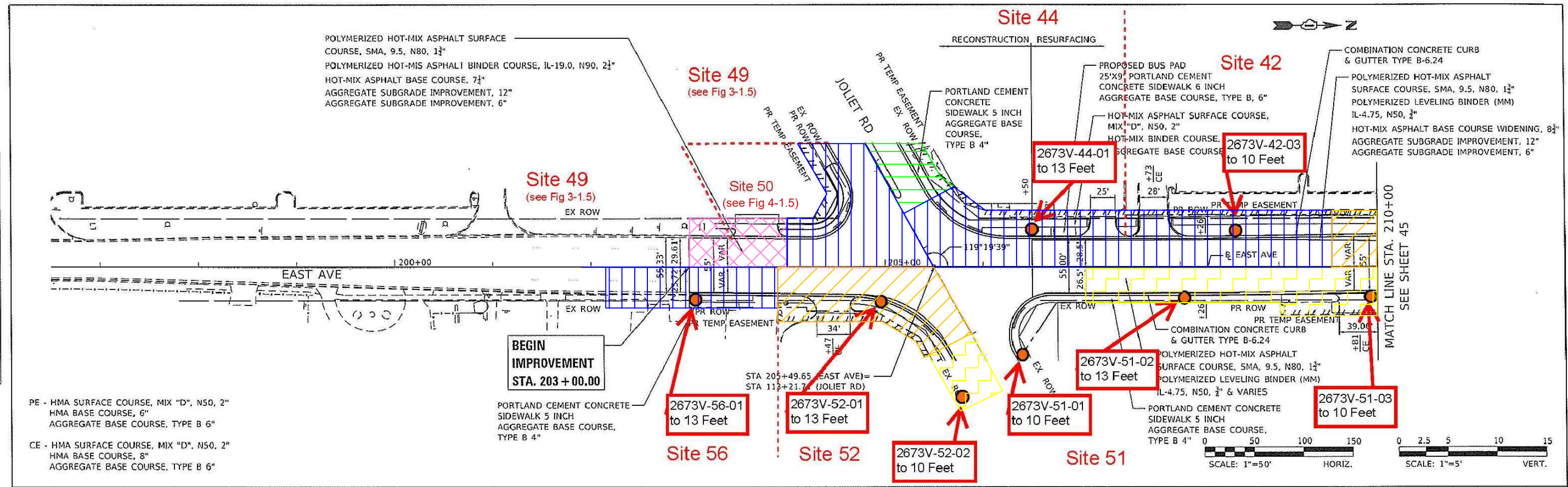
Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Jul 20, 2021
Date:



DATE	
BY	
REVISION	
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BY	
REVISION	
NO.	
DATE	
BY	
REVISION	
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652.86	652.64	652.51	652.37	652.23	652.09	651.98	651.87	651.84	651.81	651.76	651.70	651.62	651.68	651.70	651.65	651.60	651.62	651.65	651.57	651.84	651.67	652.05	651.69	652.09	651.74	651.90	651.53	651.61	651.32	651.41	651.12	651.21	650.92	651.01	650.63	650.81	650.33	650.44	649.94	650.05	649.54	
197+00	198+00	199+00	200+00	201+00	202+00	203+00	204+00	205+00	206+00	207+00	208+00	209+00	210+00																													

Accurate GROUP, INC.

USER NAME = john
 DESIGNED - JMT
 DRAWN - JN
 CHECKED - TGM
 DATE - 04/13/2018

FIGURE 4-1.1 Extent of Potentially Impacted Soil
Huff & Huff, Inc. WO #33A

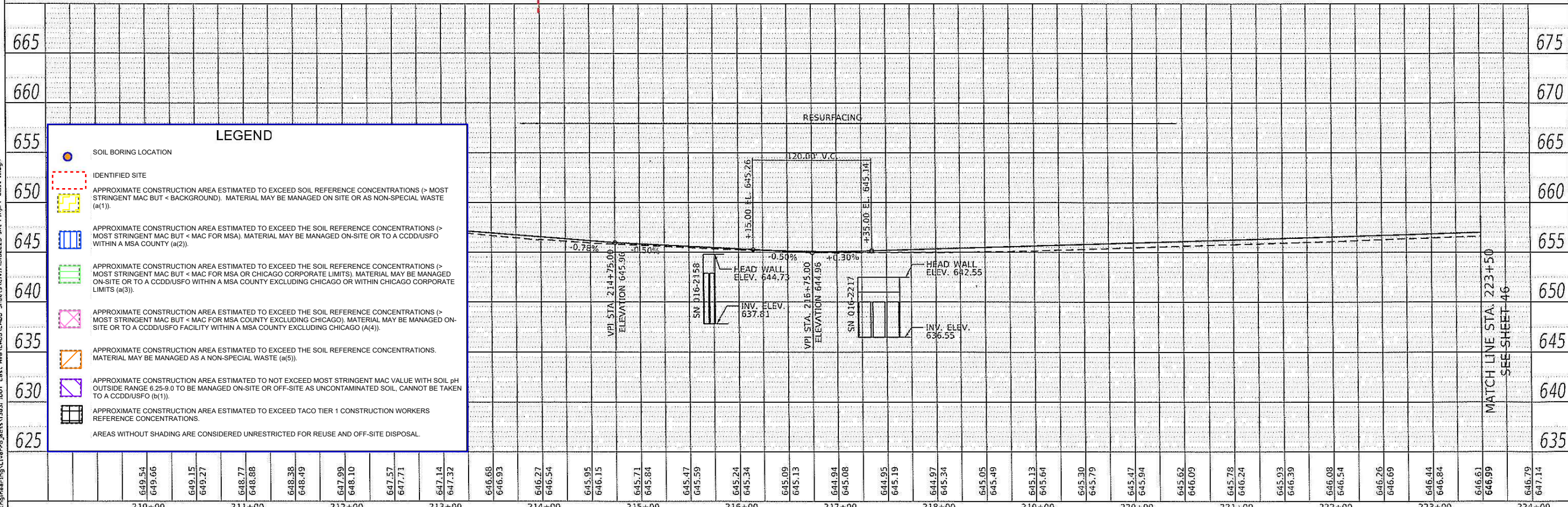
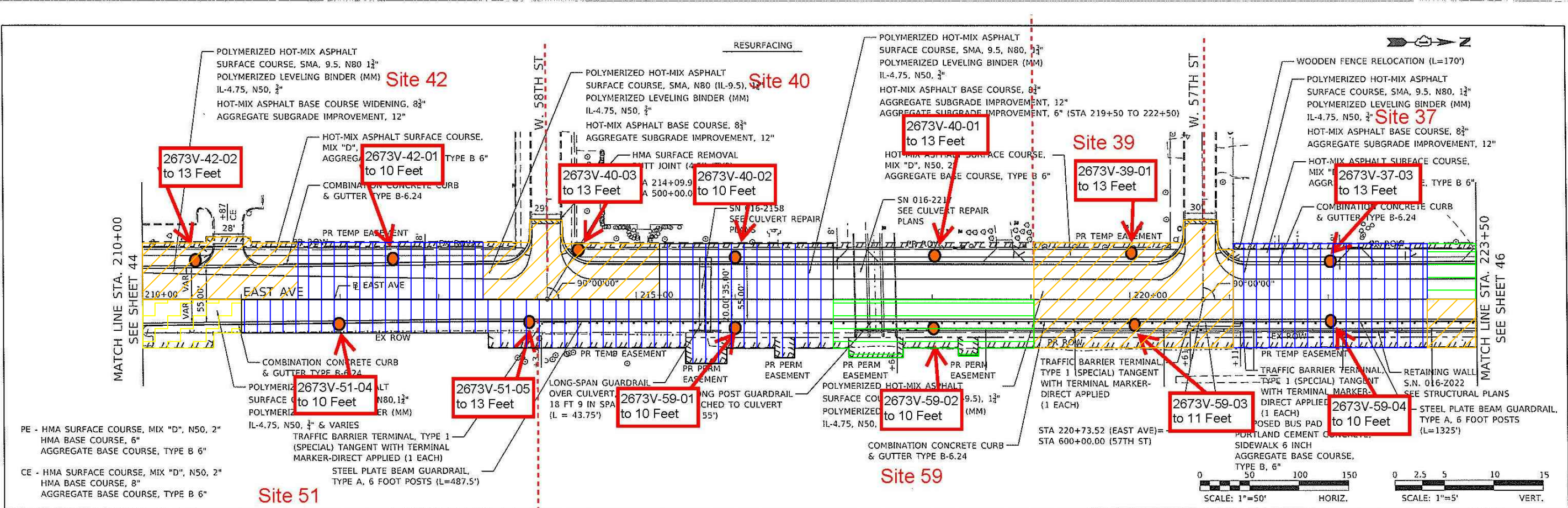
EAST AVE. PLAN AND PROFILE-I
EAST AVENUE (55TH ST. TO JOLIET RD.)

1"=50' SHEET OF SHEETS STA. 203+00 TO STA. 210+00

F.A.U. R.T.E. 2719	SECTION 0102N&T	COUNTY COOK	TOTAL SHEETS 354	SHEET NO. 44
CONTRACT NO. 62C25			ILLINOIS FED. AID PROJECT	

DATE	
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LEGEND	
	SOIL BORING LOCATION
	IDENTIFIED SITE
	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 CDDIUSFO 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 CDDIUSFO 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 CDDIUSFO 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 CDDIUSFO (b(1)).
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED TACO TIER 1 CONSTRUCTION WORKERS REFERENCE CONCENTRATIONS.
	AREAS WITHOUT SHADING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.

649.54	649.66	649.15	649.27	648.77	648.88	648.38	648.49	647.99	648.10	647.57	647.71	647.14	647.32	646.68	646.93	646.27	646.54	645.95	646.15	645.71	645.84	645.47	645.59	645.24	645.34	645.09	645.13	644.94	645.08	644.95	645.19	644.97	645.34	645.05	645.49	645.13	645.64	645.30	645.79	645.47	645.94	645.62	646.09	645.78	646.24	645.93	646.39	646.08	646.54	646.26	646.69	646.44	646.84	646.61	646.99	646.79	647.14
210+00	211+00	212+00	213+00	214+00	215+00	216+00	217+00	218+00	219+00	220+00	221+00	222+00	223+00	224+00																																											

FIGURE 4-1.2 Extent of Potentially Impacted Soil
Huff & Huff, Inc. WO #33A

EAST AVE. PLAN AND PROFILE-II
EAST AVENUE (55TH ST. TO JOLIET RD.)

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	354	45
CONTRACT NO. 62C25			ILLINOIS FED. AID PROJECT	

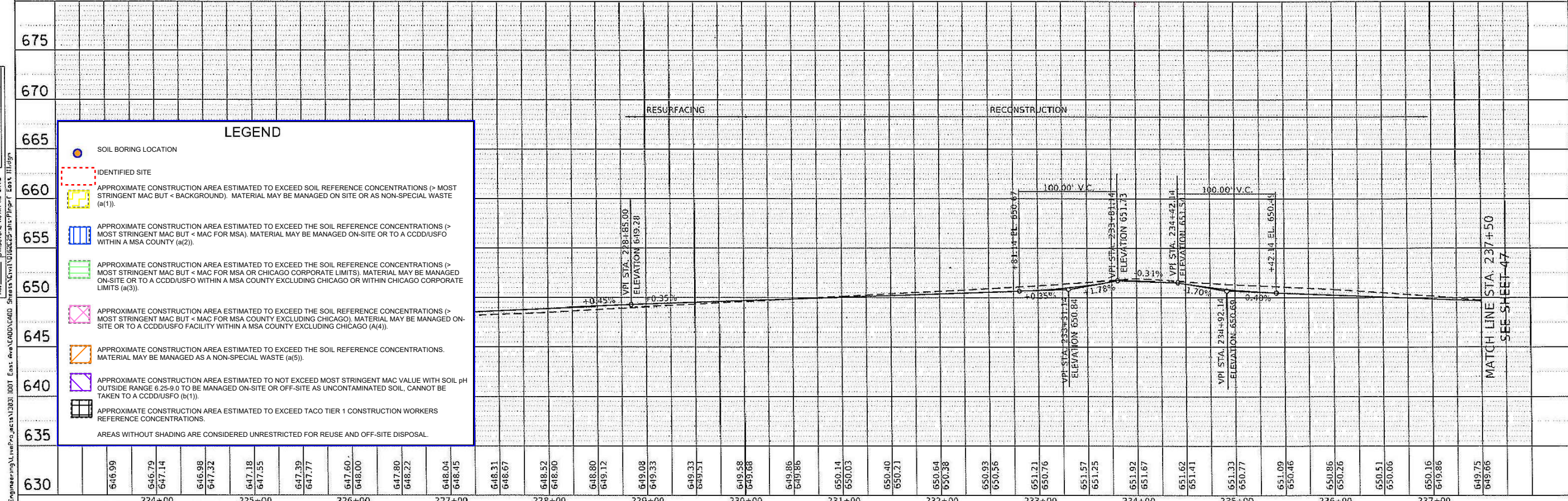
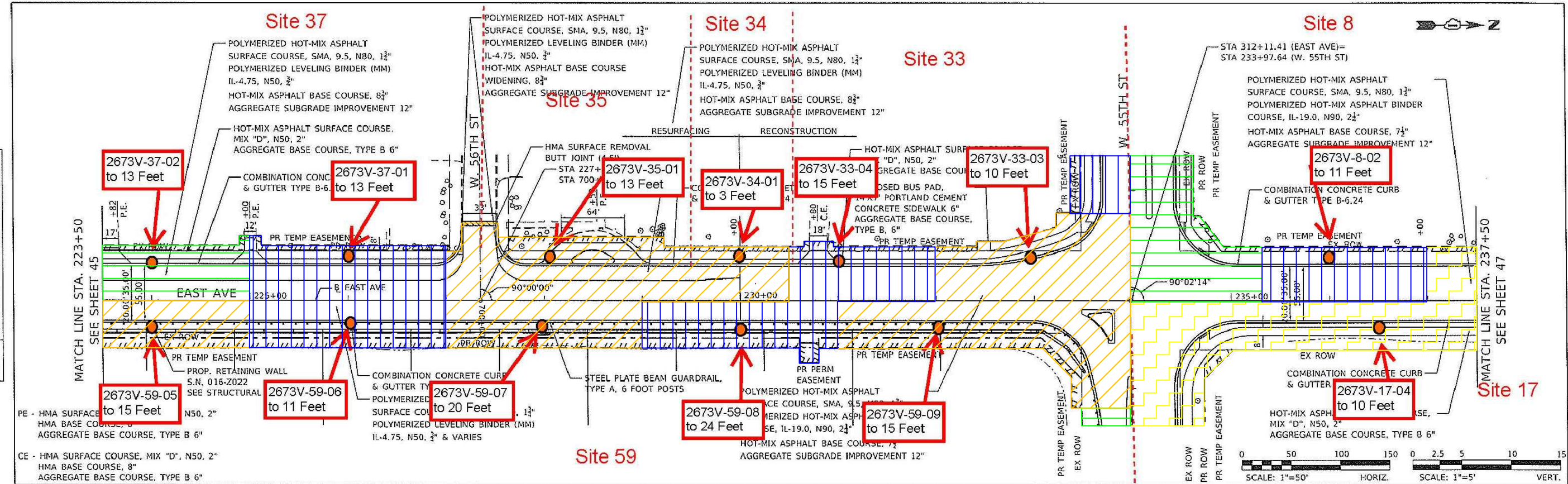


USER NAME	DESIGNED	REVISED
J. John	JMT	-
DRAWN	REVISION	
JH	-	
CHECKED	REVISION	
TGM	-	
DATE	REVISION	
04/13/2018	-	

SCALE: 1"=50' SHEET OF SHEETS STA. 210+00 TO STA. 223+50

DATE	
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APPROVED	
NOTED	
NO. OF SHEETS	
NO. OF SHEETS CHECKED	
NO. OF SHEETS FILED	

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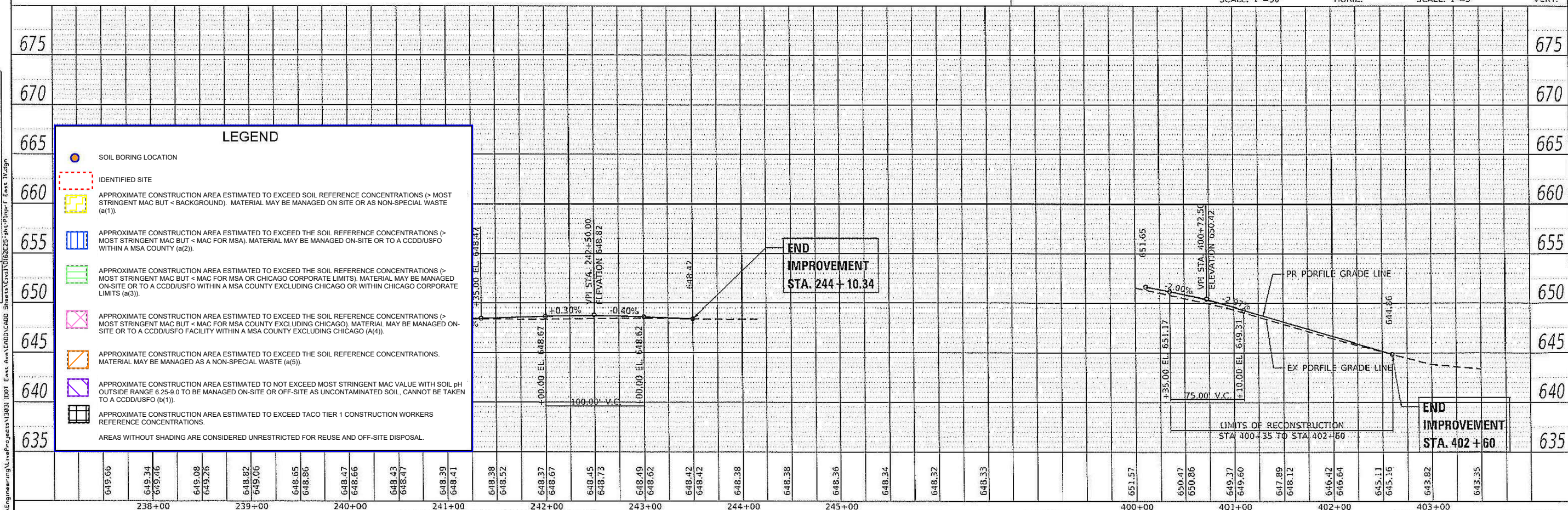
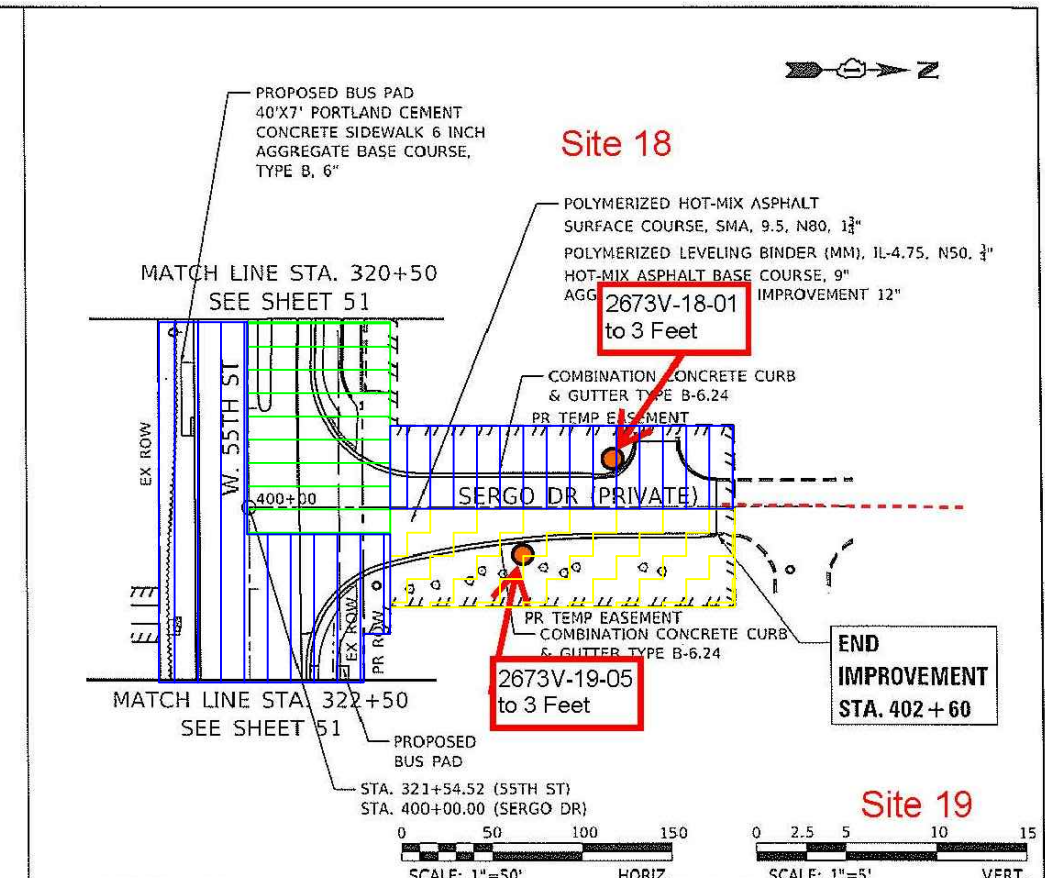
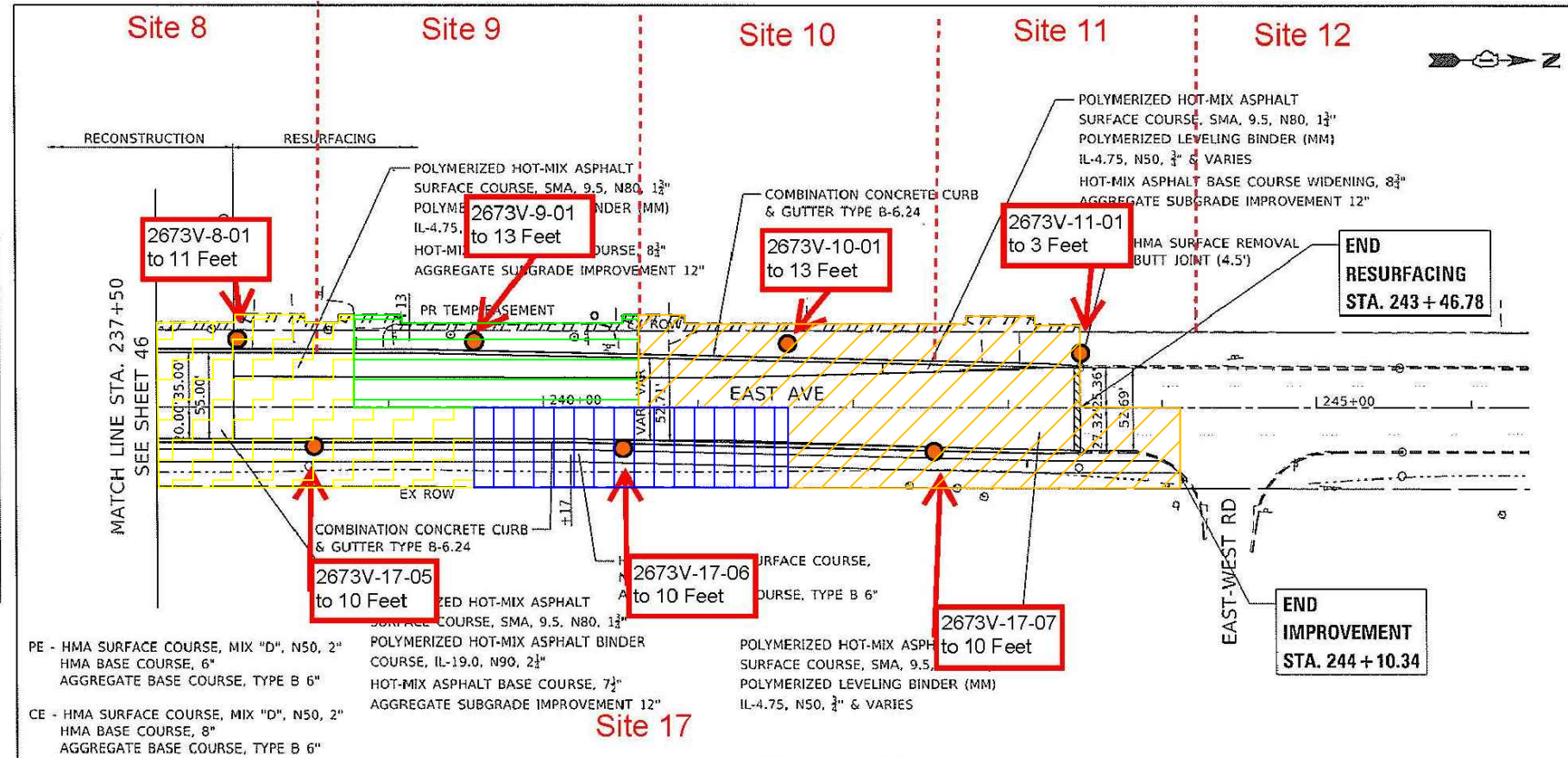


LEGEND

- SOIL BORING LOCATION
- IDENTIFIED SITE
- 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 SHADING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.

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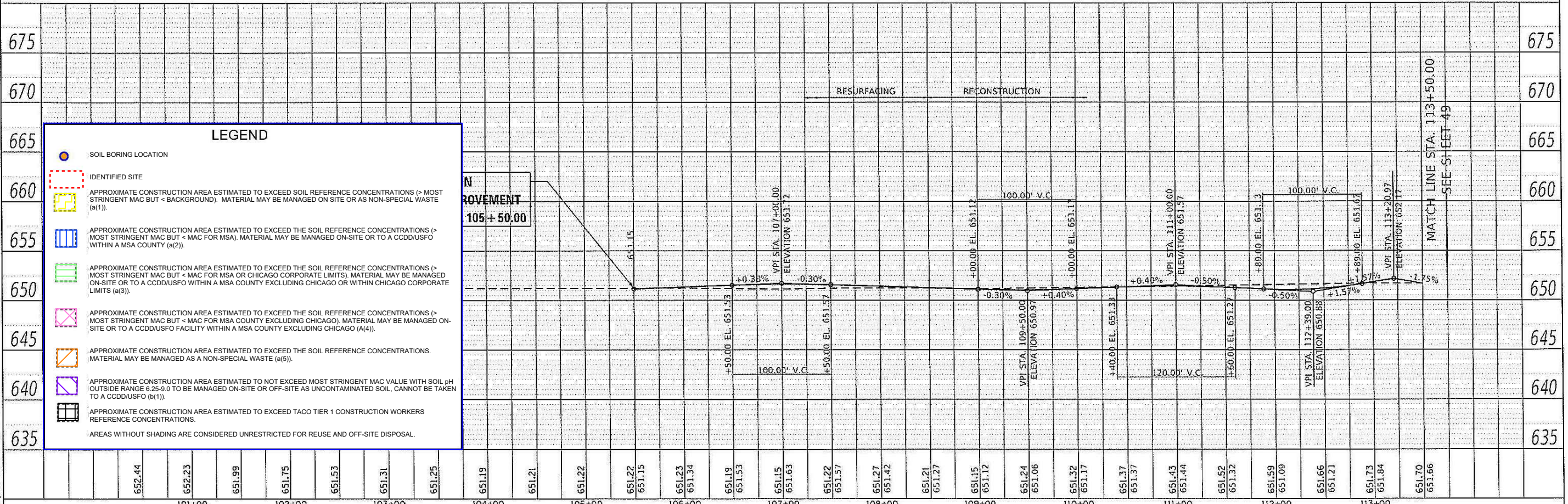
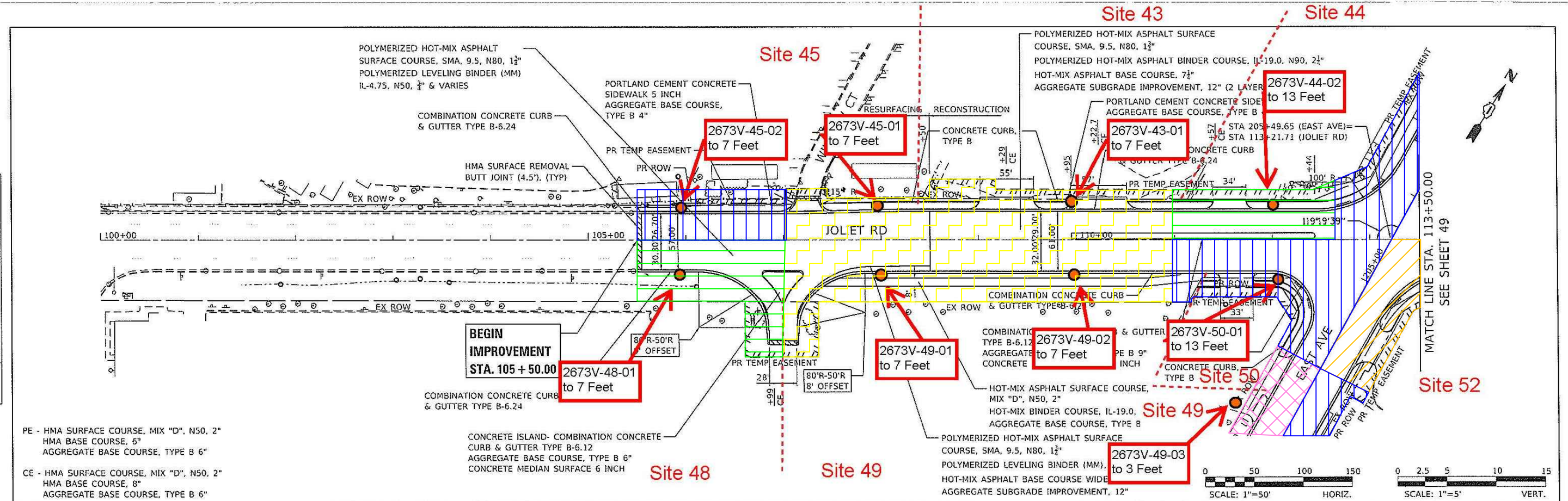


LEGEND	
	SOIL BORING LOCATION
	IDENTIFIED SITE
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < BACKGROUND). MATERIAL MAY BE MANAGED ON SITE OR AS NON-SPECIAL WASTE (a(1)).
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE 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 EXCEED MOST STRINGENT MAC VALUE WITH SOIL pH OUTSIDE RANGE 6.25-8.0 TO BE MANAGED ON-SITE OR OFF-SITE AS UNCONTAMINATED SOIL. CANNOT BE TAKEN TO A CCDD/USFO (a(1)).
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED TACO TIER 1 CONSTRUCTION WORKERS REFERENCE CONCENTRATIONS.
	AREAS WITHOUT SHADING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.

	USER NAME = jahn	DESIGNED - JMT	REVISED -	FIGURE 4-1.4 Extent of Potentially Impacted Soil Huff & Huff, Inc. WO #33A	EAST AVE. PLAN AND PROFILE-IV EAST AVENUE (55TH ST. TO JOLIET RD.)	F.A.U. R.T.E. = 2719	SECTION = 0102N&T	COUNTY = COOK	TOTAL SHEETS = 354	SHEET NO. = 47		
	PLOT SCALE = 1/8"=1'-0"	DRAWN - JN	REVISED -			SCALE: 1"=50'	SHEET OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT			
	PLOT DATE = 6/7/2019	CHECKED - TGM	REVISED -						CONTRACT NO. 62C25			
		DATE = 04/13/2018	REVISED -									

DATE	
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REVISION	
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DESCRIPTION	
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REVISION	
NO.	
DESCRIPTION	



652.44	652.23	651.99	651.75	651.53	651.31	651.25	651.19	651.21	651.22	651.22	651.15	651.23	651.34	651.19	651.53	651.15	651.63	651.22	651.57	651.27	651.42	651.21	651.27	651.15	651.12	651.24	651.06	651.32	651.17	651.37	651.37	651.43	651.44	651.52	651.32	651.59	651.09	651.66	651.21	651.73	651.84	651.70	651.66			
101+00	102+00	103+00	104+00	105+00	106+00	107+00	108+00	109+00	110+00	111+00	112+00	113+00																																		



USER NAME	JOHN	DESIGNED	JMT	REVISED	-
DRAWN	JN	CHECKED	TGM	REVISED	-
DATE	04/13/2018				

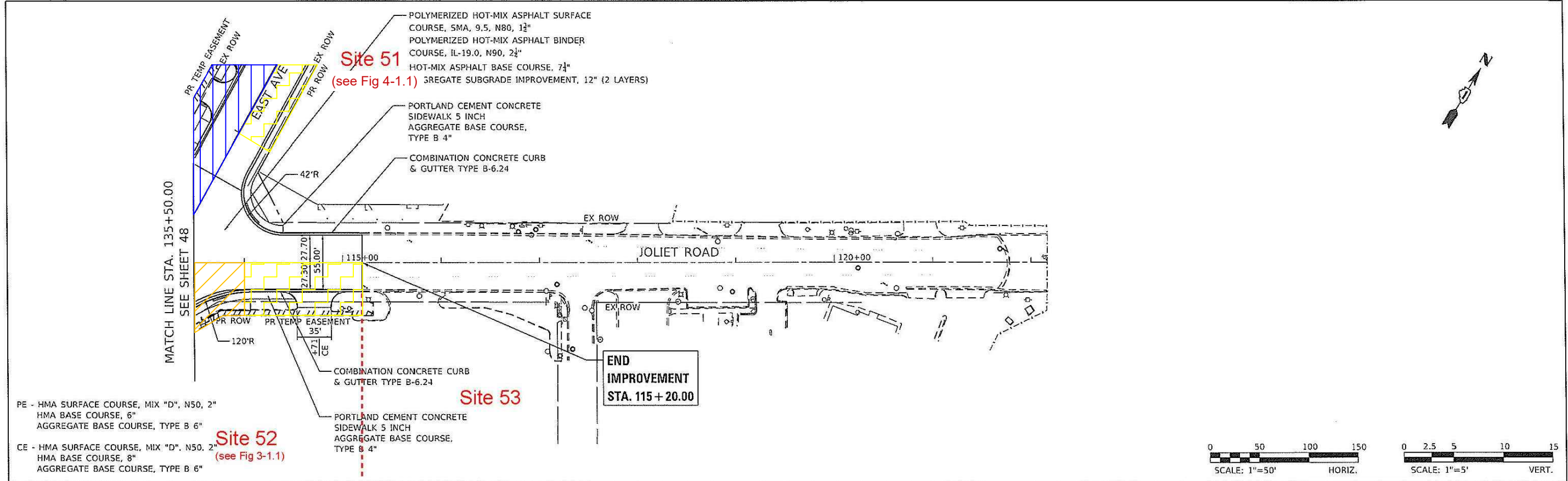
FIGURE 4-1.5 Extent of Potentially Impacted Soil
Huff & Huff, Inc. WO #33A

JOLIET RD. PLAN AND PROFILE-I
EAST AVENUE (55TH ST. TO JOLIET RD.)

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	354	48
CONTRACT NO. 62C25			ILLINOIS FED. AID PROJECT	

PLAN	DRAWN	DATE
CHECKED		
NOTED		
BY		
DATE		

PROFILE	DRAWN	DATE
CHECKED		
NOTED		
BY		
DATE		



PE - HMA SURFACE COURSE, MIX "D", N50, 2"
 HMA BASE COURSE, 6"
 AGGREGATE BASE COURSE, TYPE B 6"

CE - HMA SURFACE COURSE, MIX "D", N50, 2"
 HMA BASE COURSE, 8"
 AGGREGATE BASE COURSE, TYPE B 6"

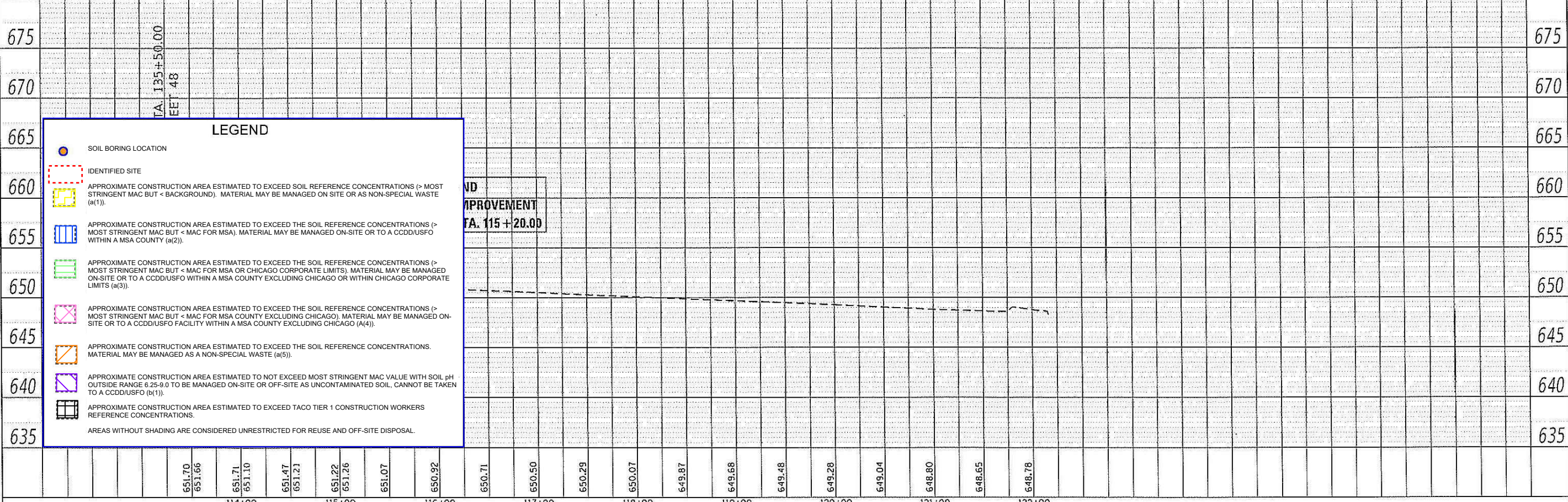
PORTLAND CEMENT CONCRETE
 SIDEWALK 5 INCH
 AGGREGATE BASE COURSE,
 TYPE B 4"

COMBINATION CONCRETE CURB
 & GUTTER TYPE B-6.24

COMBINATION CONCRETE CURB
 & GUTTER TYPE B-6.24

PORTLAND CEMENT CONCRETE
 SIDEWALK 5 INCH
 AGGREGATE BASE COURSE,
 TYPE B 4"

END
 IMPROVEMENT
 STA. 115 + 20.00



LEGEND	
●	SOIL BORING LOCATION
□ (dashed)	IDENTIFIED SITE
▨ (diagonal lines)	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)).
▨ (vertical lines)	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)).
▨ (horizontal lines)	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)).
▨ (cross-hatch)	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)).
▨ (diagonal lines, other)	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS. MATERIAL MAY BE MANAGED AS A NON-SPECIAL WASTE (a(5)).
▨ (dotted)	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)).
▨ (checkered)	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED TACO TIER 1 CONSTRUCTION WORKERS REFERENCE CONCENTRATIONS.
□ (unshaded)	AREAS WITHOUT SHADING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.

FIGURE 4-1.6 Extent of Potentially Impacted Soil
 Huff & Huff, Inc. WO #33A

JOLIET RD. PLAN AND PROFILE-II
 EAST AVENUE (55TH ST. TO JOLIET RD.)
 SHEET OF SHEETS STA. 135+50 TO STA. 115+20

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	354	49
CONTRACT NO. 62C25				

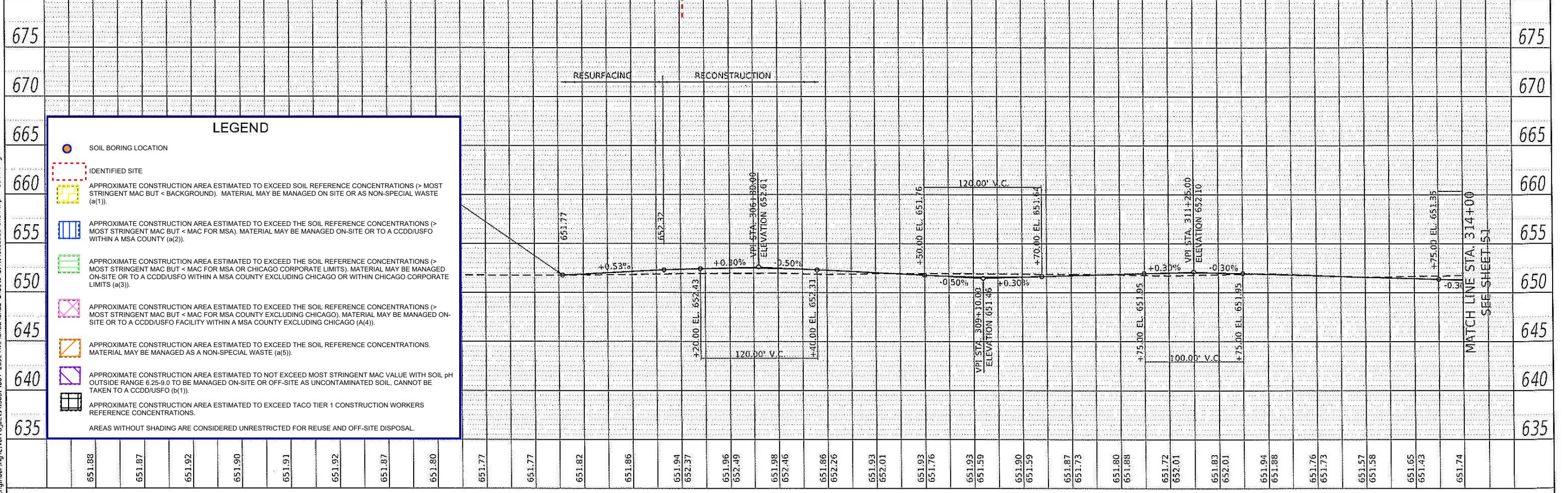
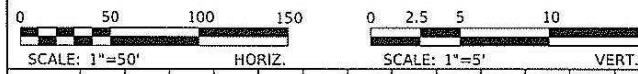
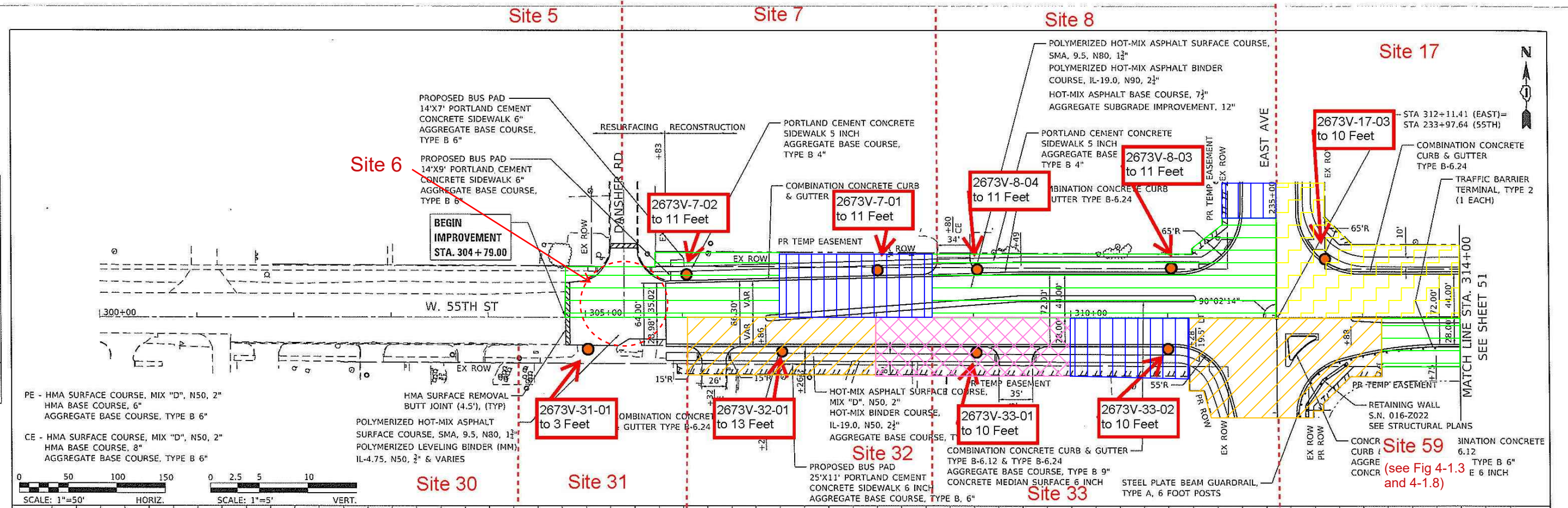


USER NAME = johnn	DESIGNED - JMT	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN - JN	REVISED -
PLOT DATE = 8/7/2019	CHECKED - TGM	REVISED -
	DATE - 04/13/2018	REVISED -

FILE NAME: D:\Engineering\New\Projects\13031_001 East Ave\CD\CD\0480 Sheets\CD\116225-ans-Paper-Joliet.dgn

DATE	
BY	
PLANNED	
CHECKED	
NOTED	
NO.	

DATE	
BY	
PROFILE	
CHECKED	
NOTED	
NO.	



FILE NAME = D:\Engineering\Live\Projects\13031 1001 East Ave\000\0600 Sheets\Civil\01\62C29\st-19\19-155th.Ldgn



USER NAME	john	DESIGNED	JMT	REVISED	-
DRAWN	JN	CHECKED	TGM	REVISED	-
PLT SCALE	100.0000' / in.	DATE	04/13/2018	REVISED	-
PLT DATE	6/7/2019				

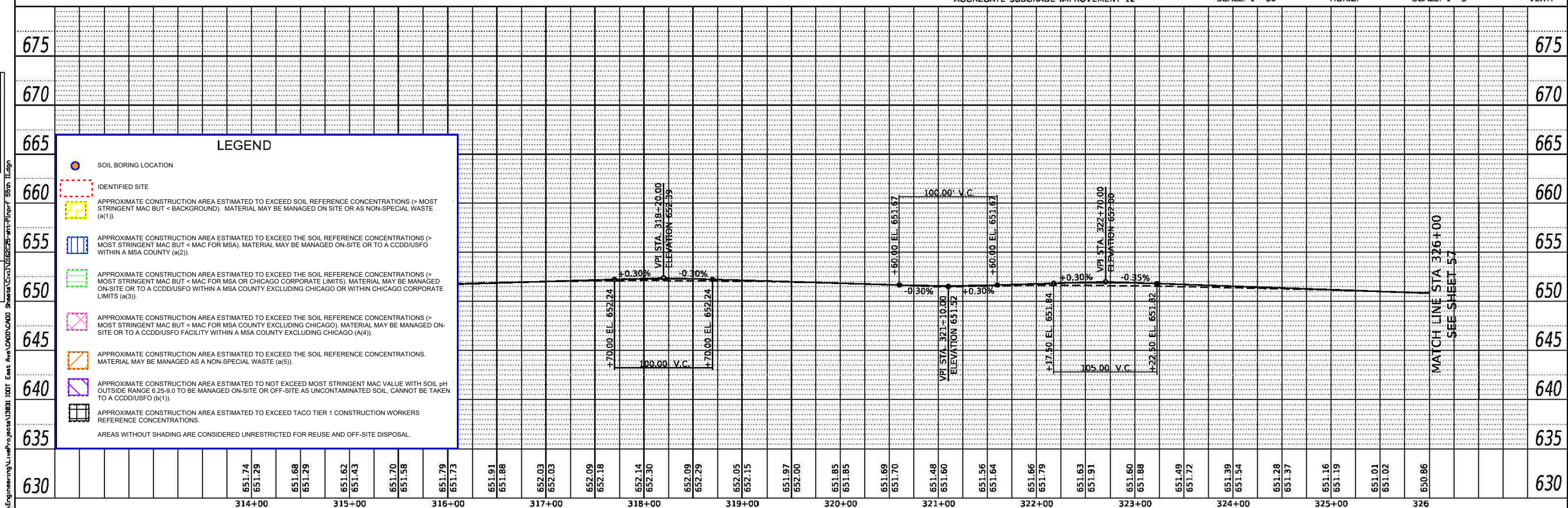
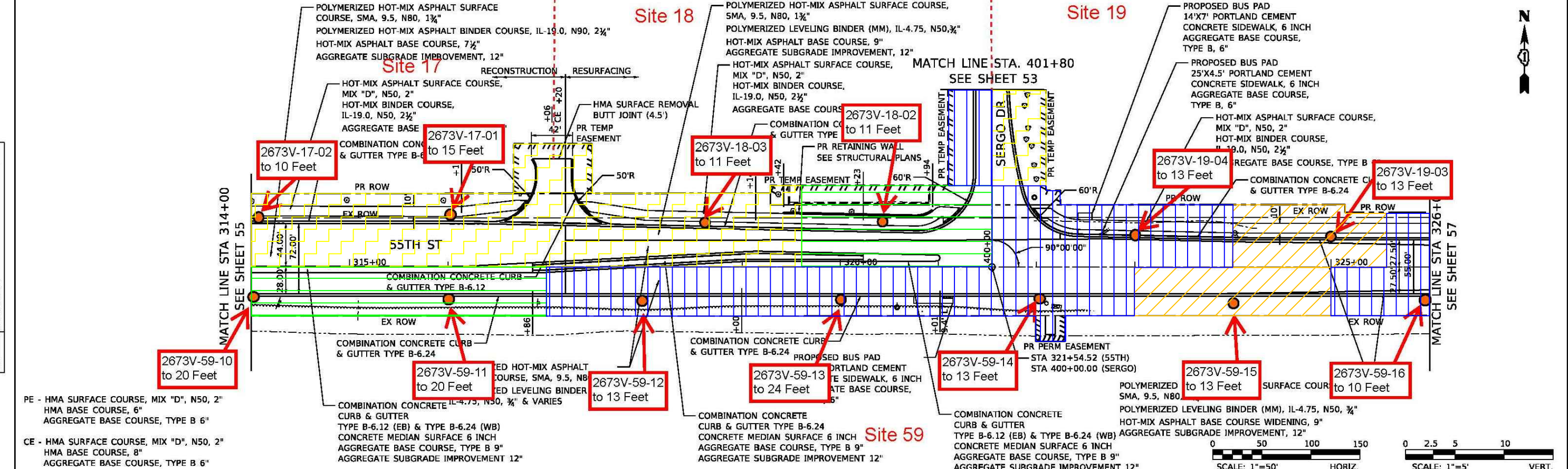
FIGURE 4-1.7 Extent of Potentially Impacted Soil
Huff & Huff, Inc. WO #33A

55TH ST. PLAN AND PROFILE-1		COUNTY		TOTAL SHEETS	SHEET NO.
EAST AVENUE (55TH ST. TO JOLIET RD.)		COOK		354	50
E: 1"=50'		SHEET OF SHEETS		STA. 305+83 TO STA. 314+00	
		ILLINOIS		FED. AID PROJECT	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	354	50
CONTRACT NO. 62C25				

PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO. OF DAYS CHECKED	
	DATE FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO. OF DAYS CHECKED	
	DATE FILE NAME	



LEGEND	
	SOIL BORING LOCATION
	IDENTIFIED SITE
	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 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 6.25-8.0 TO BE MANAGED ON-SITE OR OFF-SITE AS UNCONTAMINATED SOIL. CANNOT BE TAKEN TO A CCDD/USFO (a(6)).
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED TACO TIER 1 CONSTRUCTION WORKERS REFERENCE CONCENTRATIONS.
	AREAS WITHOUT SHADING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.

Accurate GROUP, INC.

USER NAME = johnn DESIGNED - JMT REVISED -
 DRAWN - JN REVISED -
 CHECKED - TGM REVISED -
 DATE - 09/13/2019 REVISED -

FIGURE 4-1.8 Extent of Potentially Impacted Soil
 Huff & Huff, Inc. WO #33A

55TH ST PLAN AND PROFILE - II
 EAST AVENUE (55TH ST TO JOLIET RD)

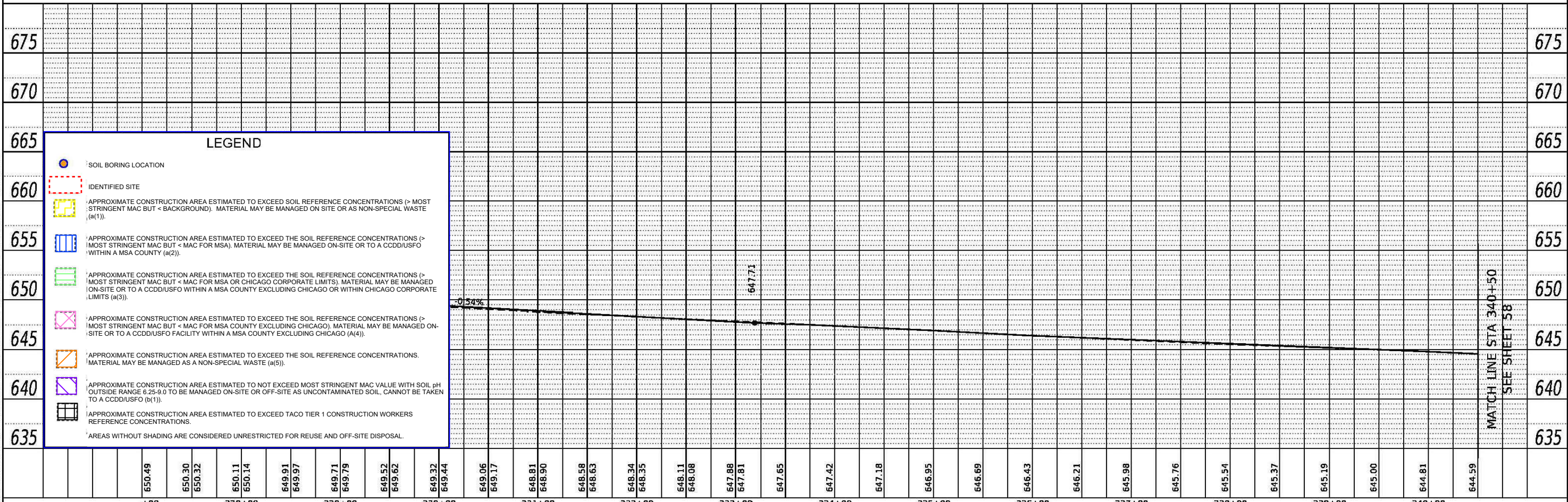
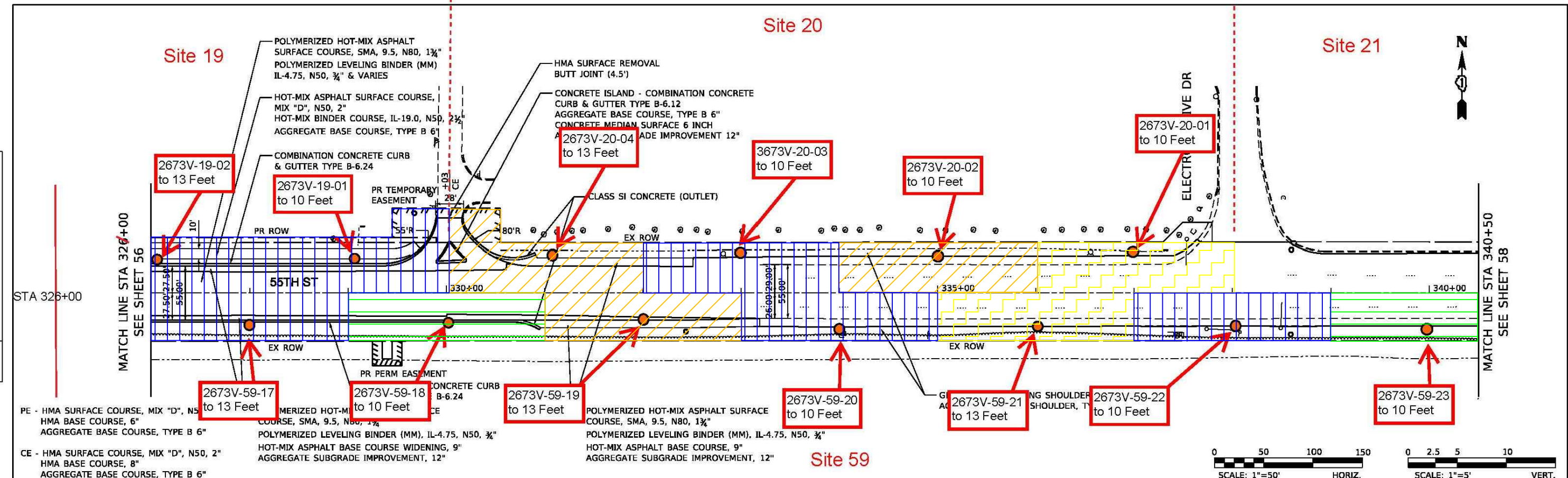
SCALE: 1"=50' SHEET OF SHEETS STA. 314+00 TO STA. 325+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	373	56

CONTRACT NO. 62C25 ILLINOIS FED. AID PROJECT

PLAN	SURVEYED	DATE
	PLOTTED	
	NOTED	
	CHECKED	
	BY	
	DATE	
	NO. OF SHEETS	
	TOTAL SHEETS	
	DATE	

PROFILE	SURVEYED	DATE
	PLOTTED	
	NOTED	
	CHECKED	
	BY	
	DATE	
	NO. OF SHEETS	
	TOTAL SHEETS	
	DATE	



650.49	650.30	650.32	650.11	650.14	649.91	649.97	649.71	649.79	649.62	649.62	649.32	649.44	649.06	649.17	648.81	648.90	648.58	648.63	648.34	648.35	648.11	648.08	647.88	647.81	647.65	647.42	647.18	646.95	646.69	646.43	646.21	645.98	645.76	645.54	645.37	645.19	645.00	644.81	644.59							
+00	328+00	329+00	330+00	331+00	332+00	333+00	334+00	335+00	336+00	337+00	338+00	339+00	340+00																																	

FIGURE 4-1.9 Extent of Potentially Impacted Soil
Huff & Huff, Inc. WO #33A

55TH ST PLAN AND PROFILE - III
EAST AVENUE (55TH ST TO JOLIET RD)



USER NAME = john	DESIGNED - JMT	REVISED -
PLOT SCALE = 1/8"=10'	DRAWN - JN	REVISED -
PLOT DATE = 9/13/2019	CHECKED - TGM	REVISED -
	DATE - 09/13/2019	REVISED -

DESIGNED - JMT	REVISED -
DRAWN - JN	REVISED -
CHECKED - TGM	REVISED -
DATE - 09/13/2019	REVISED -

F.A.I. RTE. 2719	SECTION 0102N&T	COUNTY COOK	TOTAL SHEETS 373	SHEET NO. 57
CONTRACT NO. 62C25			ILLINOIS FED. AID PROJECT	

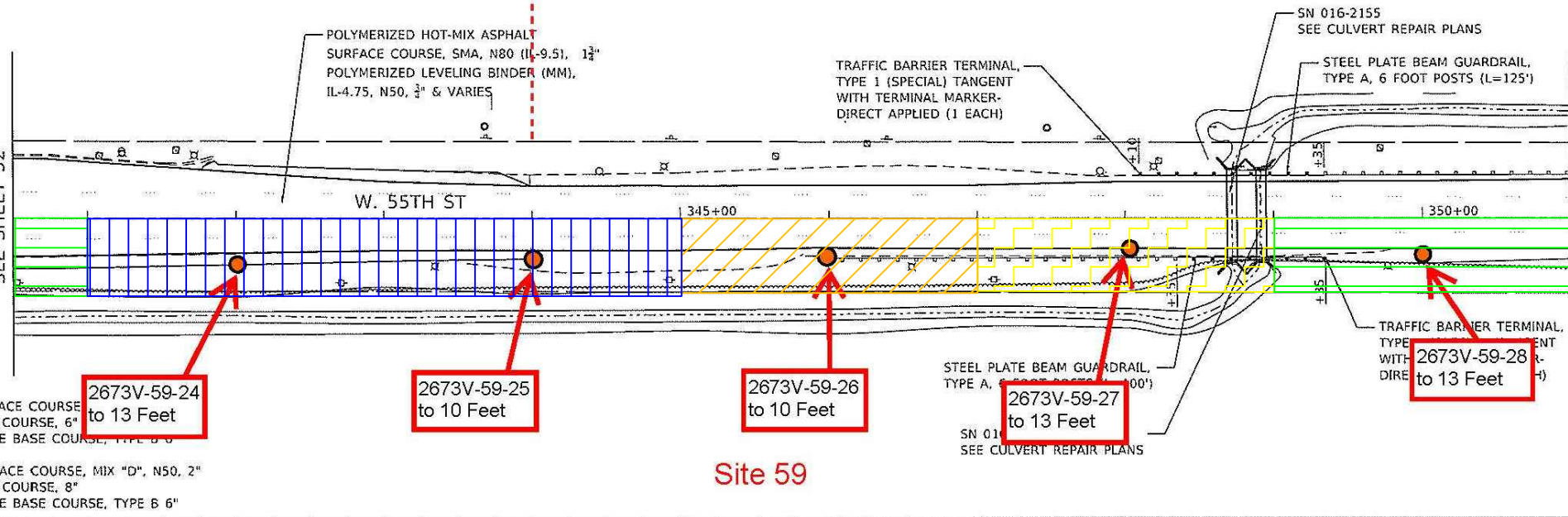


Site 21

Site 22

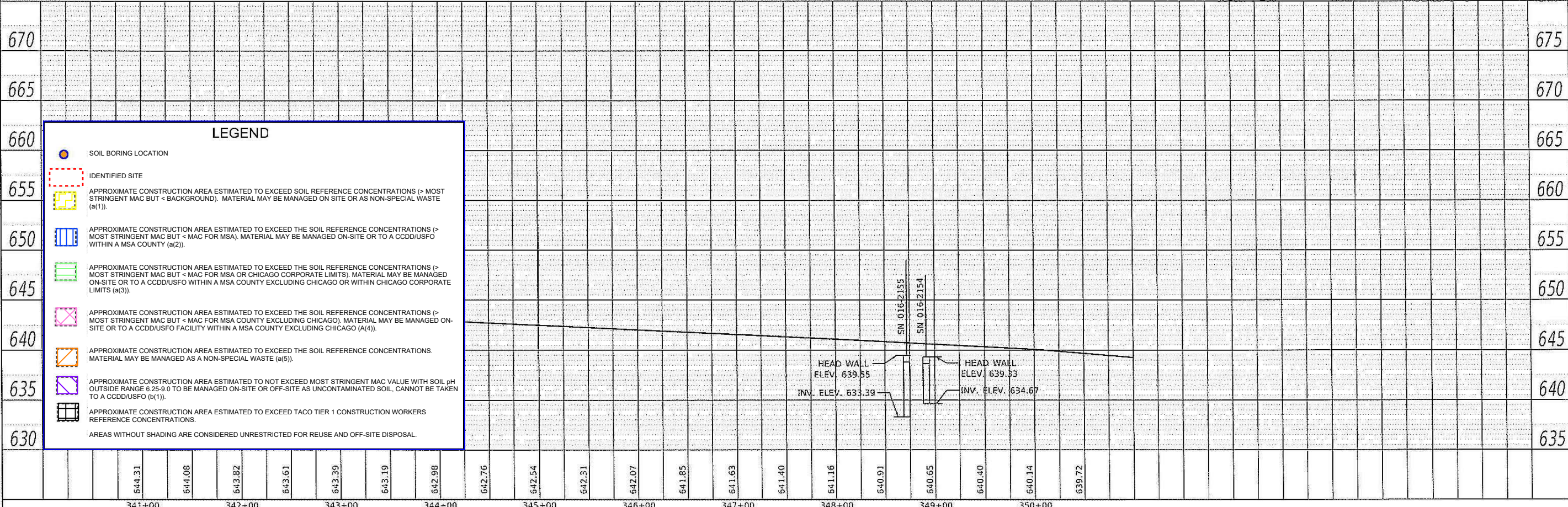
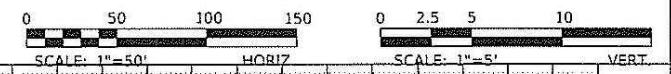
MATCH LINE STA. 340+50
SEE SHEET 52

MATCH LINE STA. 351+00
SEE SHEET 54



PE - HMA SURFACE COURSE, 1 1/2"
HMA BASE COURSE, 6"
AGGREGATE BASE COURSE, TYPE B 6"

CE - HMA SURFACE COURSE, MIX "D", N50, 2"
HMA BASE COURSE, 8"
AGGREGATE BASE COURSE, TYPE B 6"



LEGEND

- SOIL BORING LOCATION
- IDENTIFIED SITE
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED 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 SHADING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.

FIGURE 4-1.10 Extent of Potentially Impacted Soil
Huff & Huff, Inc. WO #33A

55TH ST. PLAN AND PROFILE-IV
EAST AVENUE (55TH ST. TO JOLIET RD.)

F.A.U. R.T.E. 2719	SECTION 0102N&T	COUNTY COOK	TOTAL SHEETS 354	SHEET NO. 53
SHEET OF SHEETS STA. 340+50 TO STA. 349+35		CONTRACT NO. 62C25		
ILLINOIS FED. AID PROJECT				

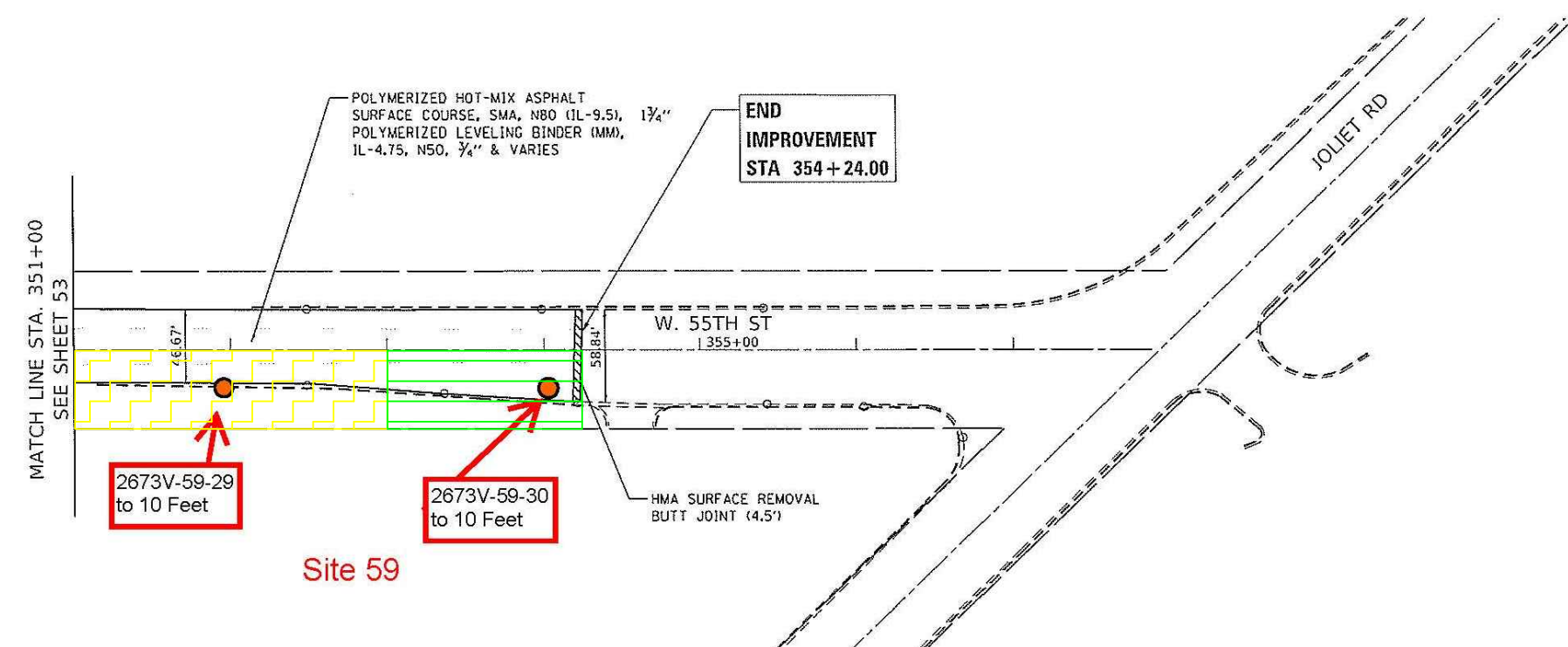
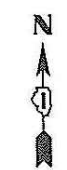
DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
DESCRIPTION	

DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
DESCRIPTION	












USER NAME = johnn	DESIGNED - JMT	REVISED -
PLOT SCALE = 100.0000 1/16"	DRAWN - JN	REVISED -
PLOT DATE = 6/7/2019	CHECKED - TGM	REVISED -
	DATE - 04/13/2018	REVISED -

Site 22



Site 59

LEGEND

-  SOIL BORING LOCATION
 -  IDENTIFIED SITE
 -  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 CCDDIUSFO 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 CCDDIUSFO 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 CCDDIUSFO 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 CCDDIUSFO (a(1)).
 -  APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED TACO TIER 1 CONSTRUCTION WORKERS REFERENCE CONCENTRATIONS.
- AREAS WITHOUT SHADING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.

FILE NAME = D:\Engineering\NewProjects\3033_1001_East_Ave\CAD\CADD_Sheets\Civil\052025-ah-Pln_55th_V.dgn



USER NAME = johnn	DESIGNED - JMT	REVISED -
PLOT SCALE = 100.0000 1" = 100'	DRAWN - JN	REVISED -
PLOT DATE = 6/7/2019	CHECKED - TGM	REVISED -
	DATE - 07/31/2018	REVISED -

FIGURE 4-1.11 Extent of Potentially Impacted Soil
Huff & Huff, Inc. WO #33A

55TH ST. PLAN AND PROFILE-V
EAST AVENUE (55TH ST. TO JOLIET RD.)

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	354	54
CONTRACT NO. 62C25			ILLINOIS FED. AID PROJECT	

SHEET	OF	SHEETS	STA. 350+00	TO	STA. 354+24
-------	----	--------	-------------	----	-------------

LPC-663 Results
 Soils for Reuse or Disposal at CCDD Facilities in MSA Counties Excluding Chgo
 IDOT, District One
 East Avenue, 55th St to Joliet Rd
 Countryside, Illinois
 BDE Sequence No.: 17471B
 PTB: 178-008/HH-1, Work Order No.: 33A

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/}	2673V-33-01	2673V-33-01	2673V-49-03	2673V-Dup-13 (2673V-49-03)
				(0-5)	(5-10)	(0-3)	(0-3)
				2/21/2020	2/21/2020	2/19/2020	2/19/2020
				2673V-33		2673V-49	
Parameter							
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	8.23	8.57	8.15	8.12
VOCs, mg/kg				NO EXCEEDANCES			
SVOCs, mg/kg							
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	0.09	1.16	<0.09	0.308	1.99
Benzo(b)fluoranthene	0.9 / 1.5 / 2.1	170	0.9	1.03	<0.33	0.337	1.92
Dibenz(a,h)anthracene	0.09 / 0.2 / 0.42	17	0.09	0.17	<0.09	<0.09	0.325
Total Metals, mg/kg							
Arsenic	11.3 / 13	61	13	3.5	4.2	6.8	3.8
Beryllium	22	410	160	<0.5	0.6	0.6	0.5
Chromium	21	690	230	30.7	19.6	16	12.8
Cobalt	20	12,000	4700	5.4	9.2	7.7	4.8
Iron	15,000 / 15,900	---	---	15600	20300	18700	13500
Lead	107	700	400	50.7	8.8	40.8	21.9
Manganese	630 / 636	4,100	1600	392	323	456	307
Nickel	100	4,100	1600	15.2	26.6	17.6	11.7
TCLP Metals, mg/L		Class I Groundwater ^{d/}					
Arsenic		0.05		<0.010	<0.010	<0.010	<0.010
Beryllium		0.004		<1.00	<1.00	<1.00	<1.00
Chromium		0.1		<0.005	<0.005	<0.005	<0.005
Cobalt		1		<0.1	<0.1	<0.1	<0.1
Iron		5		<0.1	<0.1	<0.1	<0.1
Lead		0.0075		<0.005	<0.005	<0.005	<0.005
Manganese		0.15		0.2	1.8	0.4	4.4
Nickel		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	0.023
Beryllium		0.004		<0.004	<0.004	<0.004	<0.004
Chromium		0.1		0.064	0.008	0.025	0.084
Cobalt		1		<0.1	<0.1	<0.1	<0.1
Iron		5		64.3	5.1	23.9	85.5
Lead		0.0075		0.099	<0.005	0.044	0.191
Manganese		0.15		0.4	<0.1	0.3	1.1
Nickel		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.

^{b/} Soil Remediation Objective for Construction Workers, most stringent of the Ingestion or Inhalation exposure route.

^{c/} Soil Remediation Objective for Residential exposure, most stringent of the Ingestion or Inhalation exposure route.

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

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration



February 27, 2020

Ms. Jill Connolly
HUFF & HUFF INC.
915 Harger Road
Suite 330
Oak Brook, IL 60523

Project ID: IDOT WO# 33 East Ave 81.0220509.67
First Environmental File ID: 20-0942
Date Received: February 20, 2020

Dear Ms. Jill Connolly:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 004324: effective 04/23/2019 through 02/28/2020.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Ryan Gerrick
Project Manager



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 11:20

Sample ID: 2673V-49-03 (0-3)

Date Received: 02/20/20

Sample No: 20-0942-015

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/21/20				
Total Solids	87.18		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/25/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 11:20

Sample ID: 2673V-49-03 (0-3)

Date Received: 02/20/20

Sample No: 20-0942-015

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/25/20				
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: 02/24/20				
Preparation Date: 02/23/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	308	90	ug/kg	
Benzo(b)fluoranthene	337	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 East Ave 81.0220509.67
Sample ID: 2673V-49-03 (0-3)
Sample No: 20-0942-015

Date Collected: 02/19/20
Time Collected: 11:20
Date Received: 02/20/20
Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/24/20		Preparation Date: 02/23/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	512	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 11:20

Sample ID: 2673V-49-03 (0-3)

Date Received: 02/20/20

Sample No: 20-0942-015

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/24/20				Preparation Date: 02/23/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	508	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/24/20				Preparation Date: 02/21/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.8	1.0	mg/kg	
Barium	96.3	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	47,700	50	mg/kg	
Chromium	16.0	0.5	mg/kg	
Cobalt	7.7	0.5	mg/kg	
Copper	20.4	0.5	mg/kg	
Iron	18,700	5.0	mg/kg	
Lead	40.8	0.5	mg/kg	
Magnesium	31,300	50	mg/kg	
Manganese	456	0.5	mg/kg	
Nickel	17.6	0.5	mg/kg	
Potassium	1,610	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	169	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 11:20

Sample ID: 2673V-49-03 (0-3)

Date Received: 02/20/20

Sample No: 20-0942-015

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/24/20		Method: 6010C		Preparation Method 3050B Preparation Date: 02/21/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	25.3	1.0	mg/kg	
Zinc	58.1	1.0	mg/kg	
Total Mercury Analysis Date: 02/21/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/24/20		Method: 9045D 2004		
pH @ 25°C, 1:2	8.15		Units	
TCLP Extraction Analysis Date: 02/24/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/26/20		Method: 6010C		Preparation Method 3010A Preparation Date: 02/25/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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 Analysis Date: 02/26/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 11:20

Sample ID: 2673V-49-03 (0-3)

Date Received: 02/20/20

Sample No: 20-0942-015

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/20/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/24/20		Preparation Date: 02/21/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.025	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.024	0.005	mg/L	
Iron	23.9	0.1	mg/L	
Lead	0.044	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: 02/24/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 East Ave 81.0220509.67
Sample ID: 2673V-49-03 (0-3)
Sample No: 20-0942-015

Date Collected: 02/19/20
Time Collected: 11:20
Date Received: 02/20/20
Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 92.7	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 99.8	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 95.1	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 86.5	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 71.9	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 61.2	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 84.7	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 76.4	35 - 105	
8270C	Phenol-d5 (surr)	%R: 68.4	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 9:05

Sample ID: 2673V-DUP-13

Date Received: 02/20/20

Sample No: 20-0942-020

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/21/20				
Total Solids	91.00		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 9:05

Sample ID: 2673V-DUP-13

Date Received: 02/20/20

Sample No: 20-0942-020

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
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: 02/25/20				
Preparation Date: 02/24/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	550	330	ug/kg	
Anthracene	454	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	1,730	330	ug/kg	
Benzo(a)pyrene	1,990	90	ug/kg	
Benzo(b)fluoranthene	1,920	330	ug/kg	
Benzo(k)fluoranthene	1,550	330	ug/kg	
Benzo(ghi)perylene	988	330	ug/kg	
Benzoic acid	369	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	1,820	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 9:05

Sample ID: 2673V-DUP-13

Date Received: 02/20/20

Sample No: 20-0942-020

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/25/20		Preparation Date: 02/24/20		
Dibenzo(a,h)anthracene	325	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	2,220	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	1,090	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 9:05

Sample ID: 2673V-DUP-13

Date Received: 02/20/20

Sample No: 20-0942-020

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/25/20				Preparation Date: 02/24/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	940	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	2,360	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/24/20				Preparation Date: 02/21/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.8	1.0	mg/kg	
Barium	96.9	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	36,600	50	mg/kg	
Chromium	12.8	0.5	mg/kg	
Cobalt	4.8	0.5	mg/kg	
Copper	15.4	0.5	mg/kg	
Iron	13,500	5.0	mg/kg	
Lead	21.9	0.5	mg/kg	
Magnesium	23,800	50	mg/kg	
Manganese	307	0.5	mg/kg	
Nickel	11.7	0.5	mg/kg	
Potassium	1,260	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	150	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 9:05

Sample ID: 2673V-DUP-13

Date Received: 02/20/20

Sample No: 20-0942-020

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/24/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/21/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	22.8	1.0	mg/kg	
Zinc	42.4	1.0	mg/kg	
Total Mercury Analysis Date: 02/21/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/24/20	Method: 9045D 2004			
pH @ 25°C, 1:2	8.12		Units	
TCLP Extraction Analysis Date: 02/24/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/26/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/25/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	4.4	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 Analysis Date: 02/26/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 9:05

Sample ID: 2673V-DUP-13

Date Received: 02/20/20

Sample No: 20-0942-020

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/20/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/24/20		Preparation Date: 02/21/20		
Arsenic	0.023	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.084	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.105	0.005	mg/L	
Iron	85.5	0.1	mg/L	
Lead	0.191	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: 02/24/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 9:05

Sample ID: 2673V-DUP-13

Date Received: 02/20/20

Sample No: 20-0942-020

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 91.6	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 99.3	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 93.3	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 98.5	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 73.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 62.4	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 90.4	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 77.3	35 - 105	
8270C	Phenol-d5 (surr)	%R: 72.8	50 - 100	



March 06, 2020

Mr. Shane Cuplin
HUFF & HUFF INC.
915 Harger Road
Suite 330
Oak Brook, IL 60523

Project ID: IDOT WO# 33 81.0220509.67
First Environmental File ID: 20-0977
Date Received: February 21, 2020

Dear Mr. Shane Cuplin:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 004324: effective 04/23/2019 through 02/28/2020.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Ryan Gerrick
Project Manager



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-33-01 (0-5)
Sample No: 20-0977-035

Date Collected: 02/21/20
Time Collected: 10:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	78.83		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/28/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-33-01 (0-5)
Sample No: 20-0977-035

Date Collected: 02/21/20
Time Collected: 10:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/28/20				
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: 02/28/20				
Preparation Date: 02/28/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	958	330	ug/kg	
Benzo(a)pyrene	1,160	90	ug/kg	
Benzo(b)fluoranthene	1,030	330	ug/kg	
Benzo(k)fluoranthene	1,290	330	ug/kg	
Benzo(ghi)perylene	1,020	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	407	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	1,160	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-33-01 (0-5)
Sample No: 20-0977-035

Date Collected: 02/21/20
Time Collected: 10:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/28/20		Preparation Date: 02/28/20		
Dibenzo(a,h)anthracene	170	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	2,480	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	1,010	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-33-01 (0-5)
Sample No: 20-0977-035

Date Collected: 02/21/20
Time Collected: 10:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/28/20		Preparation Date: 02/28/20		
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	973	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	1,770	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/28/20		Preparation Date: 02/26/20		
Antimony	1.3	1.0	mg/kg	
Arsenic	3.5	1.0	mg/kg	
Barium	67.2	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	52,500	50	mg/kg	
Chromium	30.7	0.5	mg/kg	
Cobalt	5.4	0.5	mg/kg	
Copper	34.9	0.5	mg/kg	
Iron	15,600	5.0	mg/kg	
Lead	50.7	0.5	mg/kg	
Magnesium	30,600	50	mg/kg	
Manganese	392	0.5	mg/kg	
Nickel	15.2	0.5	mg/kg	
Potassium	1,500	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	1,110	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-33-01 (0-5)
Sample No: 20-0977-035

Date Collected: 02/21/20
Time Collected: 10:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Preparation Method 3050B				
Analysis Date: 02/28/20 Preparation Date: 02/26/20				
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	21.3	1.0	mg/kg	
Zinc	148	1.0	mg/kg	
Total Mercury Method: 7471B				
Analysis Date: 02/26/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 02/28/20 16:00				
pH @ 25°C, 1:2	8.23		Units	
TCLP Extraction Method: 1311				
Analysis Date: 02/25/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/04/20 Preparation Date: 03/02/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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: 02/27/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-33-01 (0-5)
Sample No: 20-0977-035

Date Collected: 02/21/20
Time Collected: 10:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/25/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/03/20		Preparation Date: 03/02/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.064	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.078	0.005	mg/L	
Iron	64.3	0.1	mg/L	
Lead	0.099	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	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 03/02/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-33-01 (0-5)
Sample No: 20-0977-035

Date Collected: 02/21/20
Time Collected: 10:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 106.7	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 102.2	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 104.2	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 87.5	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 87.2	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 68.7	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 91.5	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 90.6	35 - 105	
8270C	Phenol-d5 (surr)	%R: 74.1	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-33-01 (5-10)
Sample No: 20-0977-036

Date Collected: 02/21/20
Time Collected: 10:15
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	82.46		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/28/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-33-01 (5-10)
Sample No: 20-0977-036

Date Collected: 02/21/20
Time Collected: 10:15
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/28/20				
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: 02/28/20				
Preparation Date: 02/28/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-33-01 (5-10)
Sample No: 20-0977-036

Date Collected: 02/21/20
Time Collected: 10:15
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/28/20		Preparation Date: 02/28/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-33-01 (5-10)
Sample No: 20-0977-036

Date Collected: 02/21/20
Time Collected: 10:15
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/28/20				Preparation Date: 02/28/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/27/20				Preparation Date: 02/26/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.2	1.0	mg/kg	
Barium	55.5	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	70,700	50	mg/kg	
Chromium	19.6	0.5	mg/kg	
Cobalt	9.2	0.5	mg/kg	
Copper	20.3	0.5	mg/kg	
Iron	20,300	5.0	mg/kg	
Lead	8.8	0.5	mg/kg	
Magnesium	33,400	50	mg/kg	
Manganese	323	0.5	mg/kg	
Nickel	26.6	0.5	mg/kg	
Potassium	2,810	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	931	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-33-01 (5-10)
Sample No: 20-0977-036

Date Collected: 02/21/20
Time Collected: 10:15
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/27/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/26/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	23.7	1.0	mg/kg	
Zinc	73.9	1.0	mg/kg	
Total Mercury Analysis Date: 02/26/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/28/20 16:00	Method: 9045D 2004			
pH @ 25°C, 1:2	8.57		Units	
TCLP Extraction Analysis Date: 02/25/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 03/04/20	Method: 6010C	Preparation Method 3010A Preparation Date: 03/02/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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 Analysis Date: 02/27/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-33-01 (5-10)
Sample No: 20-0977-036

Date Collected: 02/21/20
Time Collected: 10:15
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/25/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/03/20		Preparation Date: 03/02/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.008	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.005	0.005	mg/L	
Iron	5.1	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: 03/02/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-33-01 (5-10)
Sample No: 20-0977-036

Date Collected: 02/21/20
Time Collected: 10:15
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 105.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 102.3	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 104.8	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 74	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 65.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 61.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 87.6	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 76.5	35 - 105	
8270C	Phenol-d5 (surr)	%R: 65.2	50 - 100	



Illinois Environmental Protection Agency

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

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663 Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

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

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

I. Source Location Information

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

Project Name: FAU 2170 East Ave (55th Street to Joliet Rd) 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: Countryside, Hodgkins State: IL Zip Code: 60525

County: Cook Township: Lyons

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

Latitude: 41.79078 Longitude: - 87.8589

(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: _____ BOW: _____ BOA: _____

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

Estimated Volume of debris (cu. Yd.): 19,383

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.

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 4-1.11 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 #20-0942, 20-0971, 20-0977, and 20-1014. 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:

Jul 20, 2021
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):

2673V-7 (9590 West 55th Street and 5431 South Dansher Road)
2673V-8 (5444 East Avenue)
2673V-9 (5400 East Avenue)
2673V-17 (9550 West 55th Street)
2673V-18 (9500 W. 55th Street)
2673V-19 (9400 West 55th Street)
2673V-20 (9200-9260 West 55th Street)
2673V-33 (9601 West 55th Street)
2673V-37 (5600-5650 East Avenue)
2673V-40 (5710-5740 East Avenue)
2673V-42 (5808-5810 East Avenue)
2673V-44 (9600 Joliet Road)
2673V-45 (9700-9800 Joliet Road)
2673V-48 (9250 Joliet Road)
2673V-50 (9200 Joliet Road)
2673V-51 (9550 Joliet Road)
2673V-56 (5901 East Avenue)
2673V-59 (5500 Joliet Road, 6301 South East Avenue and 8935 West 55th Street)

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:

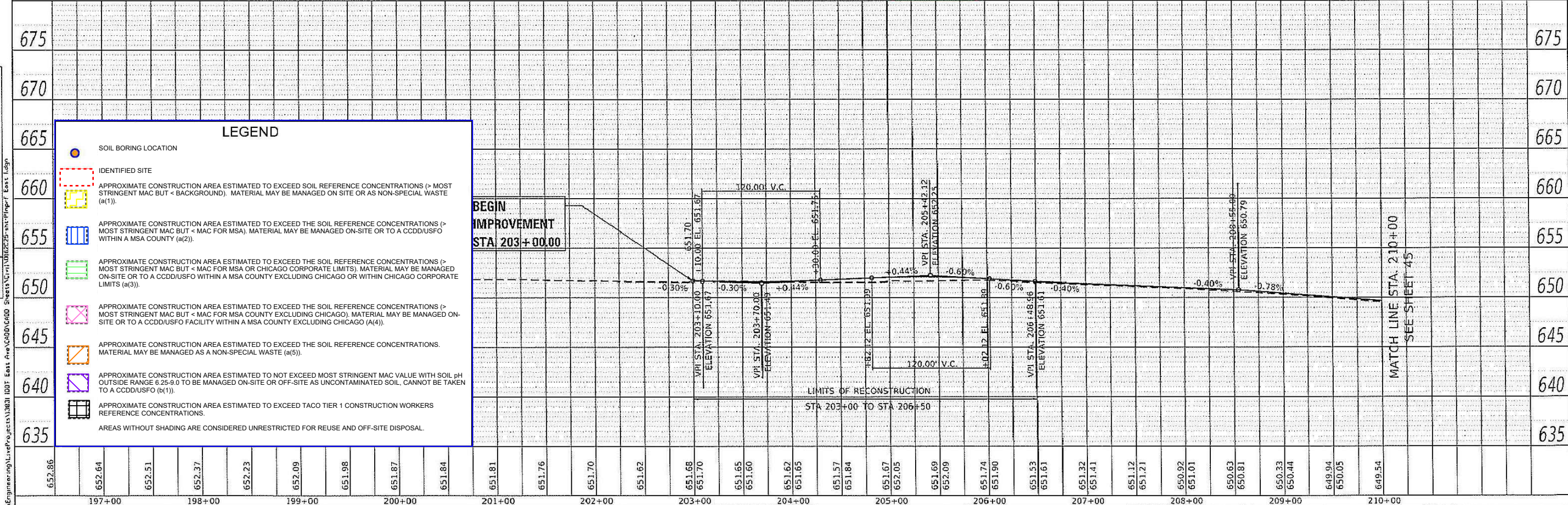
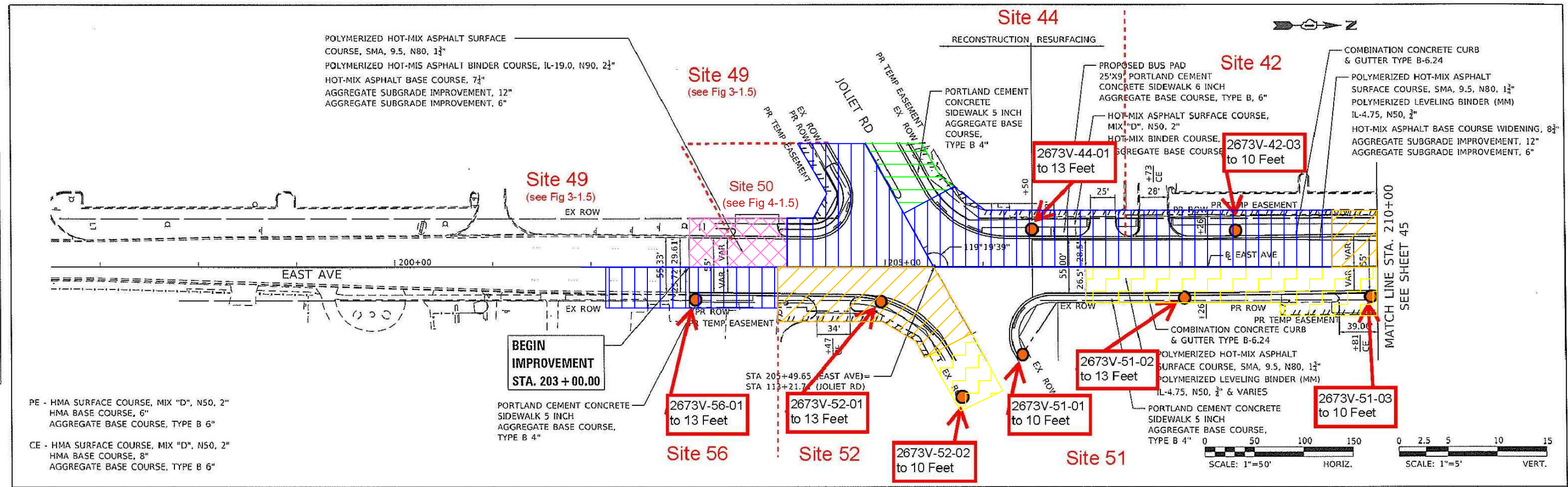
2673V-7-01 (W. 55th Street 308+00, 48 Left)
2673V-7-02 (W. 55th Street 306+00, 40 Left)
2673V-8-02 (East Avenue 236+00 40 Left)
2673V-8-03 (W. 55th Street 311+00, 48 Left)
2673V-8-04 (W. 55th Street 309+00, 48 Left)
2673V-9-01 (East Avenue 239+50, 38 Left)
2673V-17-06 (East Avenue 240+50 25 Right)
2673V-18-01 (Sergo Drive 402+00 20 Left)
2673V-18-02 (W. 55th Street 320+50, 48 Left)
2673V-19-01 (W. 55th Street 329+00, 32 Left)
2673V-19-02 (W. 55th Street 327+50, 32 Left)
2673V-19-04 (W. 55th Street 323+00, 38 Left)
2673V-20-03 (W. 55th Street 333+00, 35 Left)
2673V-33-02 (W. 55th Street 311+00, 35 Right)
2673V-33-04 (East Avenue 231+00 40 Left)
2673V-37-02 (East Avenue 224+00 40 Left)
2673V-37-03 (East Avenue 222+00 40 Left)
2673V-40-02 (East Avenue 216+00 40 Left)
2673V-42-01 (East Avenue 212+50 40 Left)
2673V-42-03 (East Avenue 208+50 35 Left)
2673V-44-01 (East Avenue 206+50 35 Left)
2673V-44-02 (Joliet Road 112+00 35 Left)
2673V-45-02 (Joliet Road 106+00 30 Left)
2673V-48-01 (Joliet Road 106+00 35 Right)
2673V-50-01 (Joliet Road 112+00 35 Right)
2673V-51-04 (East Avenue 212+00 25 Right)
2673V-51-05 (East Avenue 214+00 25 Right)
2673V-56-01 (East Avenue 203+00 30 Right)
2673V-59-01 (East Avenue 216+00 25 Right)
2673V-59-02 (East Avenue 218+00 25 Right)
2673V-59-04 (East Avenue 222+00 25 Right)
2673V-59-06 (East Avenue 226+00 25 Right)
2673V-59-08 (East Avenue 230+00 25 Right)
2673V-59-10 (W. 55th Street 314+00, 40 Right)
2673V-59-11 (W. 55th Street 316+00, 35 Right)
2673V-59-12 (W. 55th Street 318+00, 35 Right)
2673V-59-13 (W. 55th Street 320+00, 35 Right)

LPC-663
Uncontaminated Soil Certification Form
Attachment

2673V-59-14 (W. 55th Street 322+00, 35 Right)
2673V-59-16 (W. 55th Street 326+00, 35 Right)
2673V-59-17 (W. 55th Street 328+00, 35 Right)
2673V-59-18 (W. 55th Street 330+00, 35 Right)
2673V-59-20 (W. 55th Street 334+00, 35 Right)
2673V-59-22 (W. 55th Street 338+00, 35 Right)
2673V-59-23 (W. 55th Street 340+00, 35 Right)
2673V-59-24 (W. 55th Street 342+00, 35 Right)
2673V-59-25 (W. 55th Street 344+00, 32 Right)
2673V-59-28 (W. 55th Street 350+00, 32 Right)
2673V-59-30 (W. 55th Street 354+00, 35 Right)

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652.86	652.64	652.51	652.37	652.23	652.09	651.98	651.87	651.84	651.81	651.76	651.70	651.62	651.68	651.70	651.65	651.60	651.62	651.65	651.57	651.84	651.67	652.05	651.69	652.09	651.74	651.90	651.53	651.61	651.32	651.41	651.12	651.21	650.92	651.01	650.63	650.81	650.33	650.44	649.94	650.05	649.54	
197+00	198+00	199+00	200+00	201+00	202+00	203+00	204+00	205+00	206+00	207+00	208+00	209+00	210+00																													

Accurate GROUP, INC.

USER NAME = john
 DESIGNED - JMT
 DRAWN - JN
 CHECKED - TGM
 DATE - 04/13/2018

FIGURE 4-1.1 Extent of Potentially Impacted Soil
Huff & Huff, Inc. WO #33A

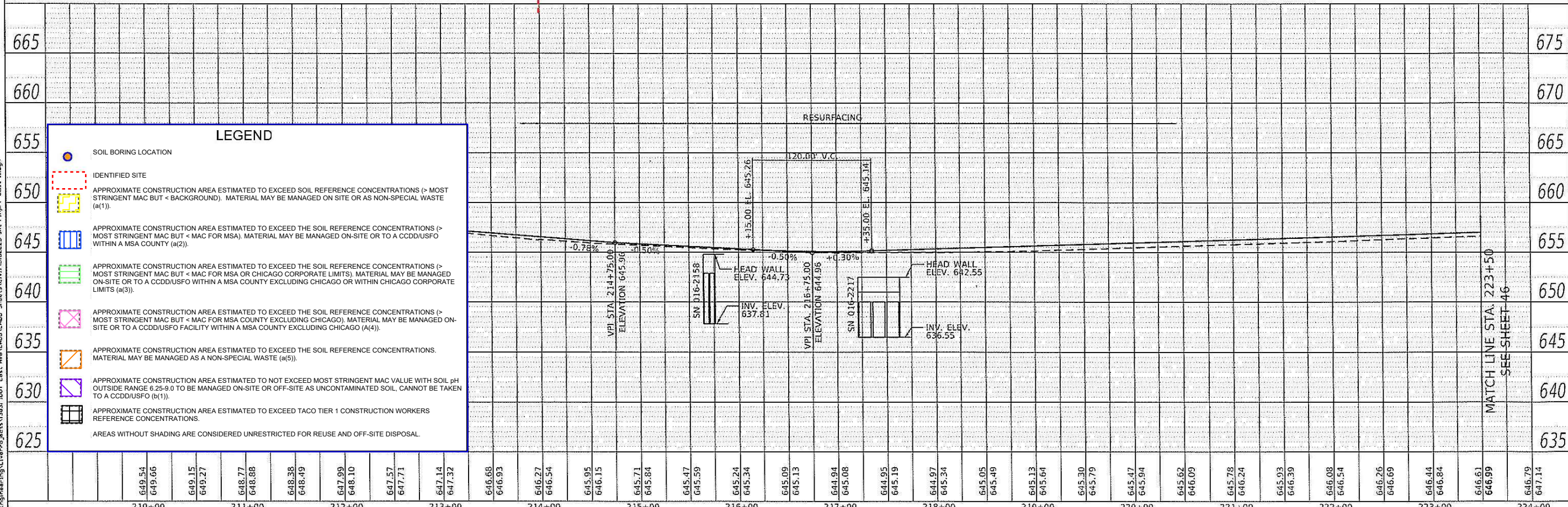
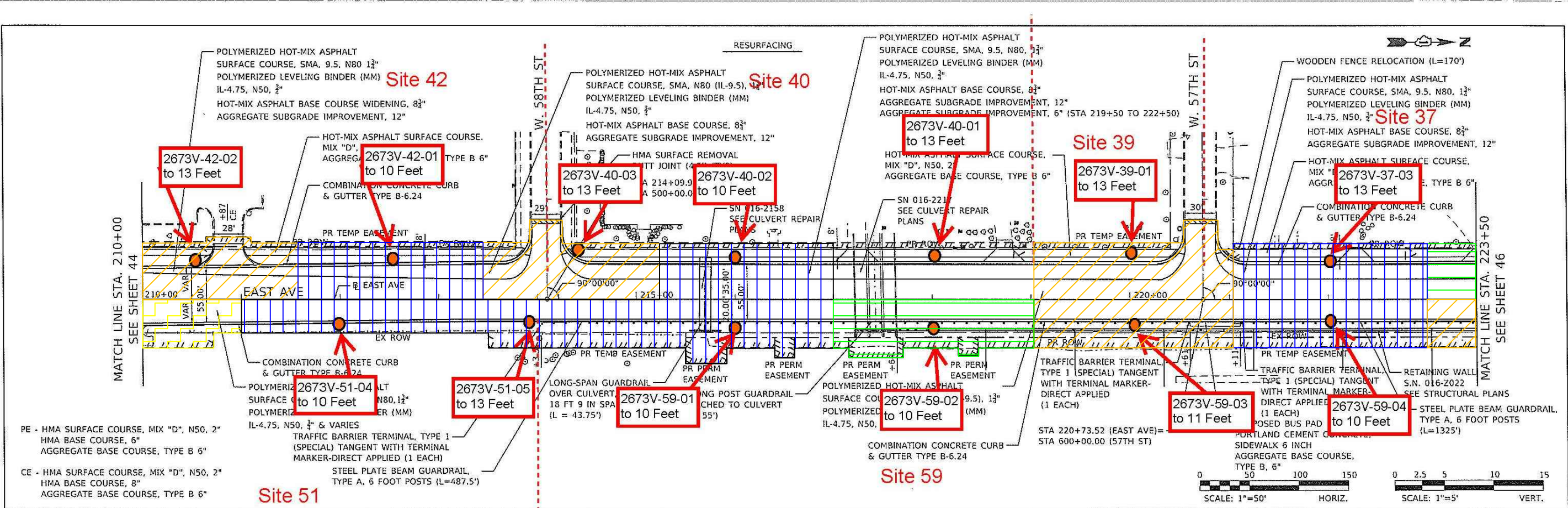
EAST AVE. PLAN AND PROFILE-I
EAST AVENUE (55TH ST. TO JOLIET RD.)

1"=50' SHEET OF SHEETS STA. 203+00 TO STA. 210+00

F.A.U. R.T.E. 2719	SECTION 0102N&T	COUNTY COOK	TOTAL SHEETS 354	SHEET NO. 44
CONTRACT NO. 62C25			ILLINOIS FED. AID PROJECT	

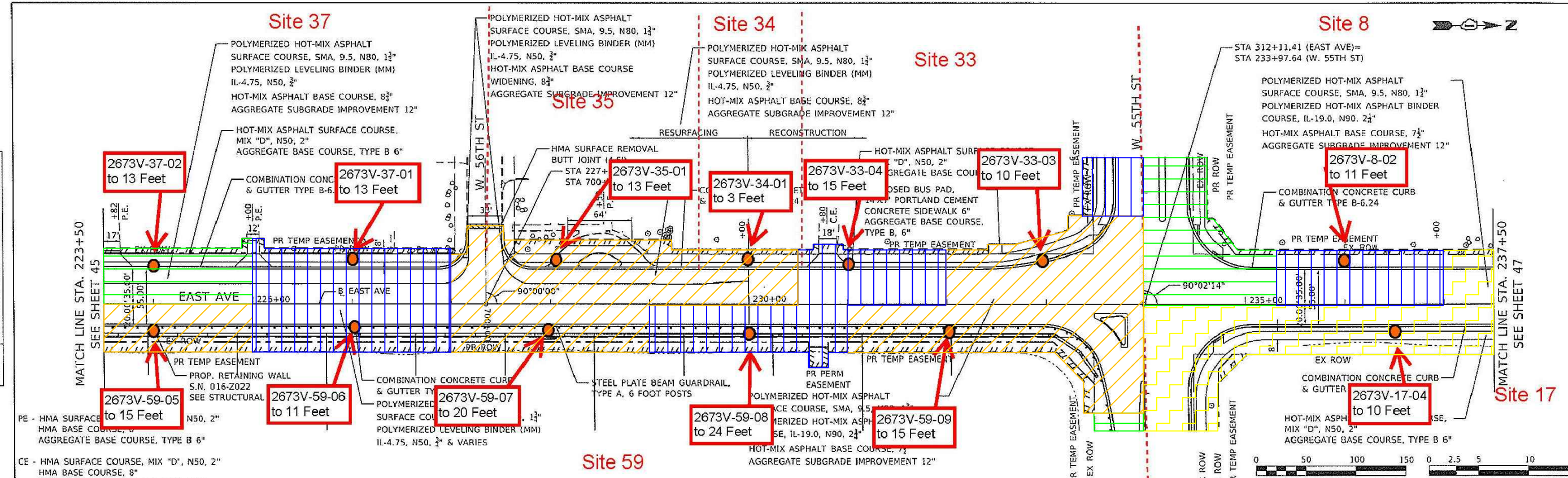
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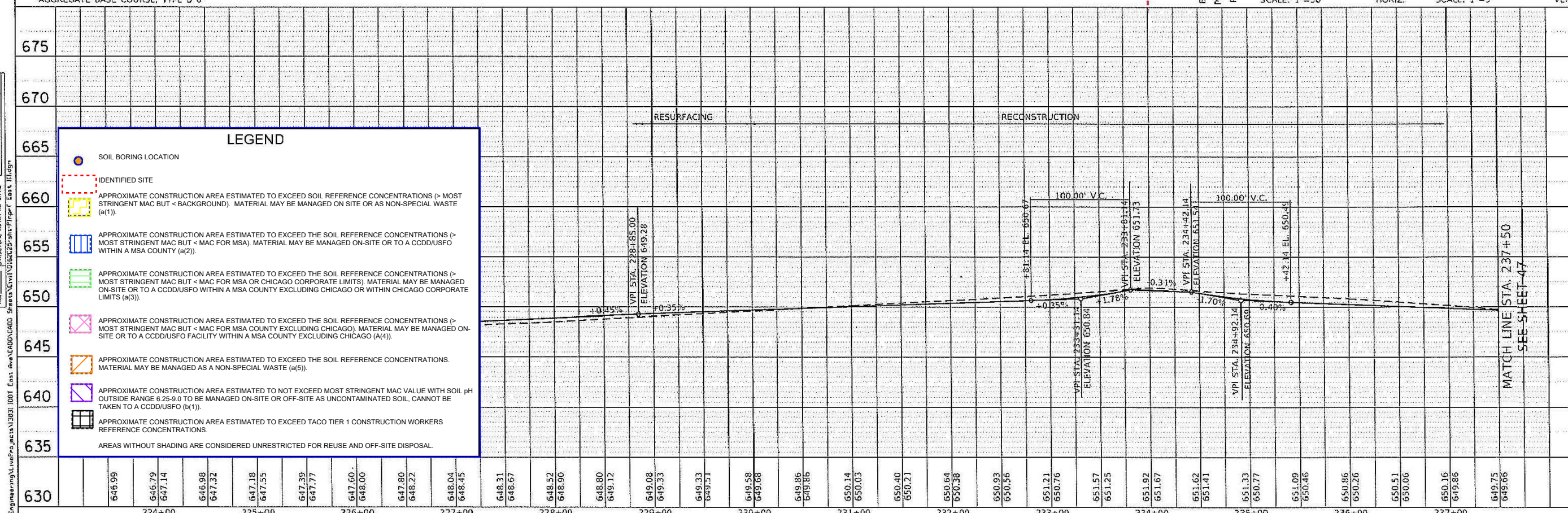
LEGEND	
	SOIL BORING LOCATION
	IDENTIFIED SITE
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < BACKGROUND). MATERIAL MAY BE MANAGED ON SITE OR AS NON-SPECIAL WASTE (a(1)).
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA). MATERIAL MAY BE MANAGED ON-SITE OR TO A CDDIUSFO 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 CDDIUSFO 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 CDDIUSFO 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 CDDIUSFO (b(1)).
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED TACO TIER 1 CONSTRUCTION WORKERS REFERENCE CONCENTRATIONS.
	AREAS WITHOUT SHADING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.

FIGURE 4-1.2 Extent of Potentially Impacted Soil
Huff & Huff, Inc. WO #33A



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DATE	
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APPROVED	
NOTED	
NOTED	
NO.	



LEGEND	
	SOIL BORING LOCATION
	IDENTIFIED SITE
	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 SHADING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.	

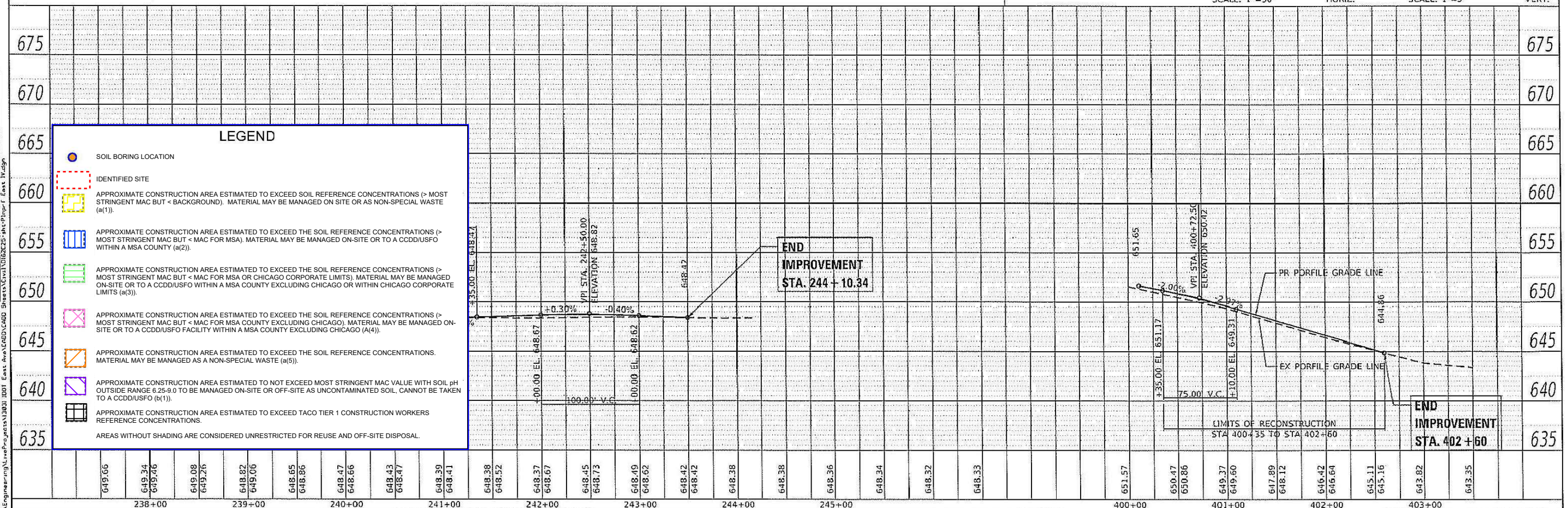
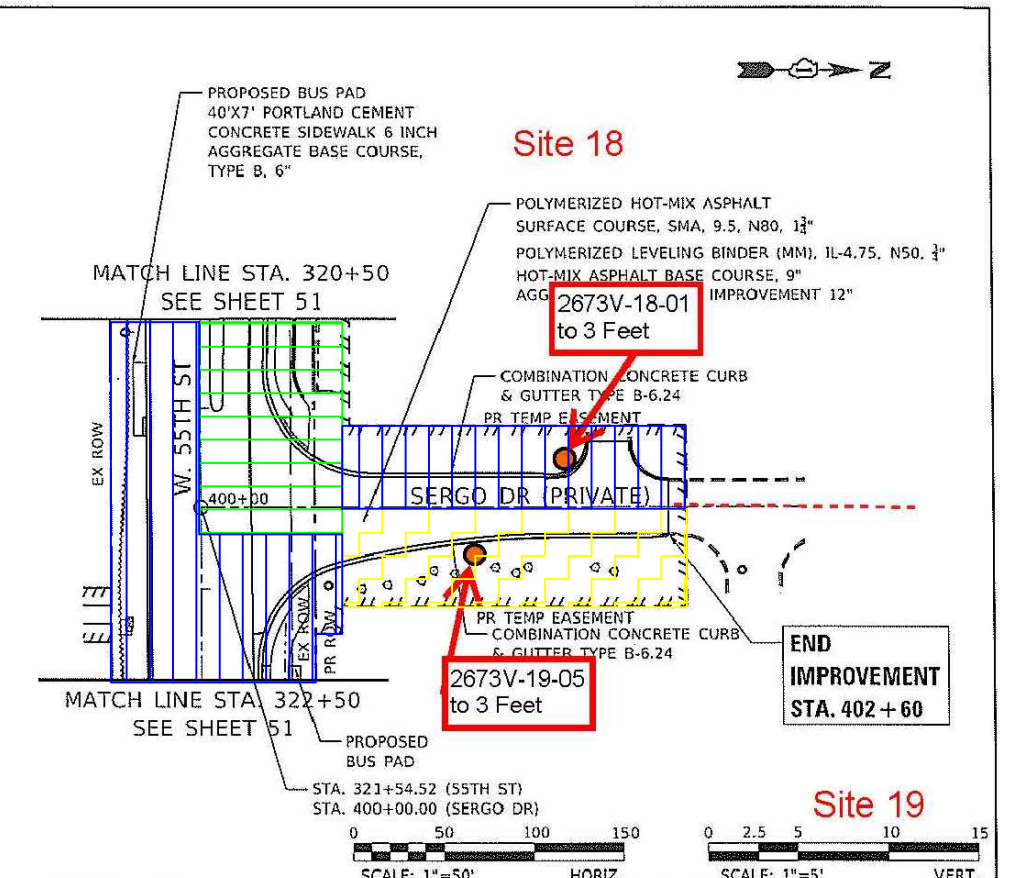
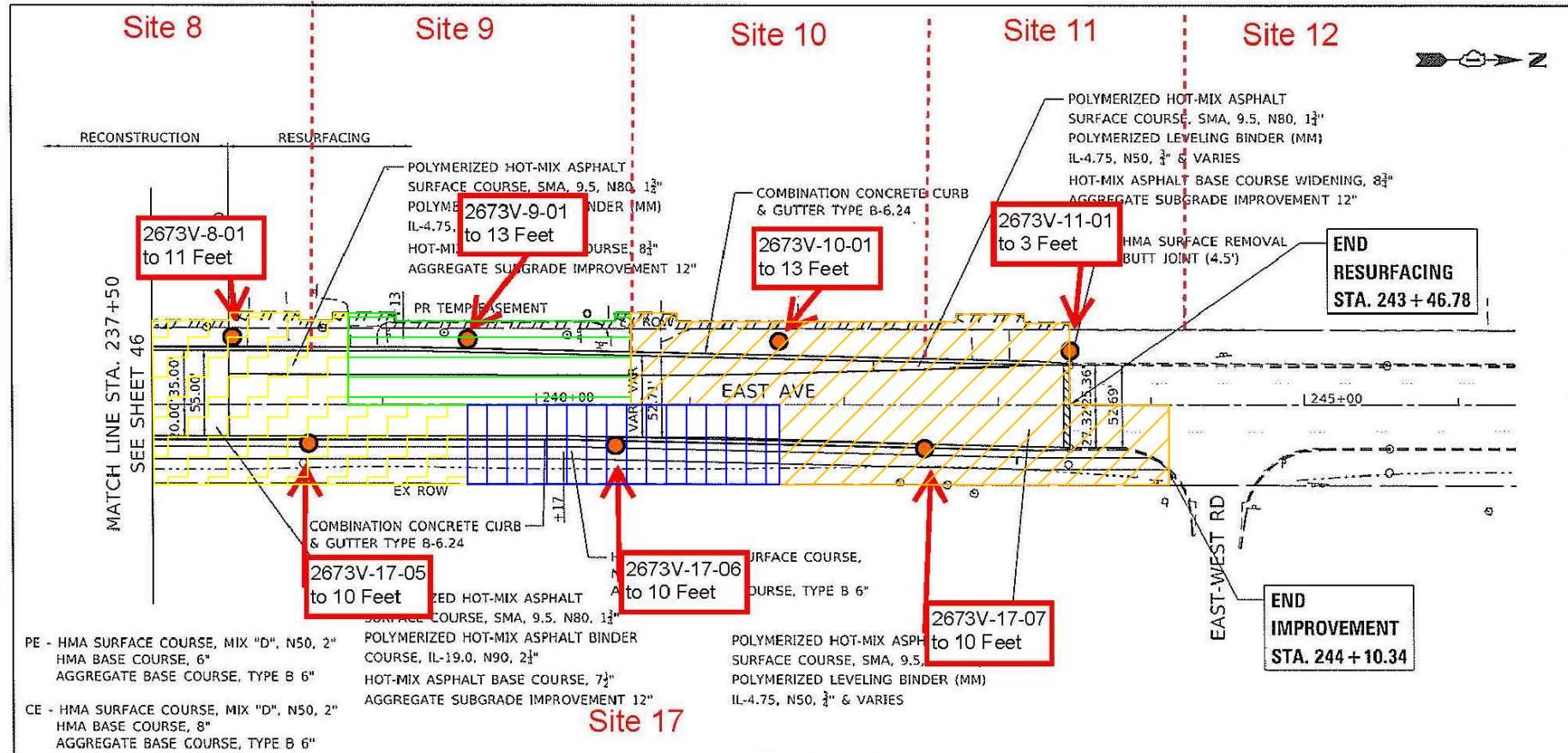
FIGURE 4-1.3 Extent of Potentially Impacted Soil
Huff & Huff, Inc. WO #33A

EAST AVE. PLAN AND PROFILE-III
EAST AVENUE (55TH ST. TO JOLIET RD.)

	USER NAME : johnn	DESIGNED - JMT	REVISED -	FIGURE 4-1.3 Extent of Potentially Impacted Soil Huff & Huff, Inc. WO #33A	EAST AVE. PLAN AND PROFILE-III EAST AVENUE (55TH ST. TO JOLIET RD.)	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE : 100,0000' / in.	DRAWN - JN	REVISED -			2719	0102N&T	COOK	354	46
	PLOT DATE : 6/7/2019	CHECKED - TGM	REVISED -			SHEET OF SHEETS STA. 223+50 TO STA. 237+50		CONTRACT NO. 62C25		ILLINOIS FED. AID PROJECT

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DESCRIPTION	
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REVISION	
NO.	
DESCRIPTION	

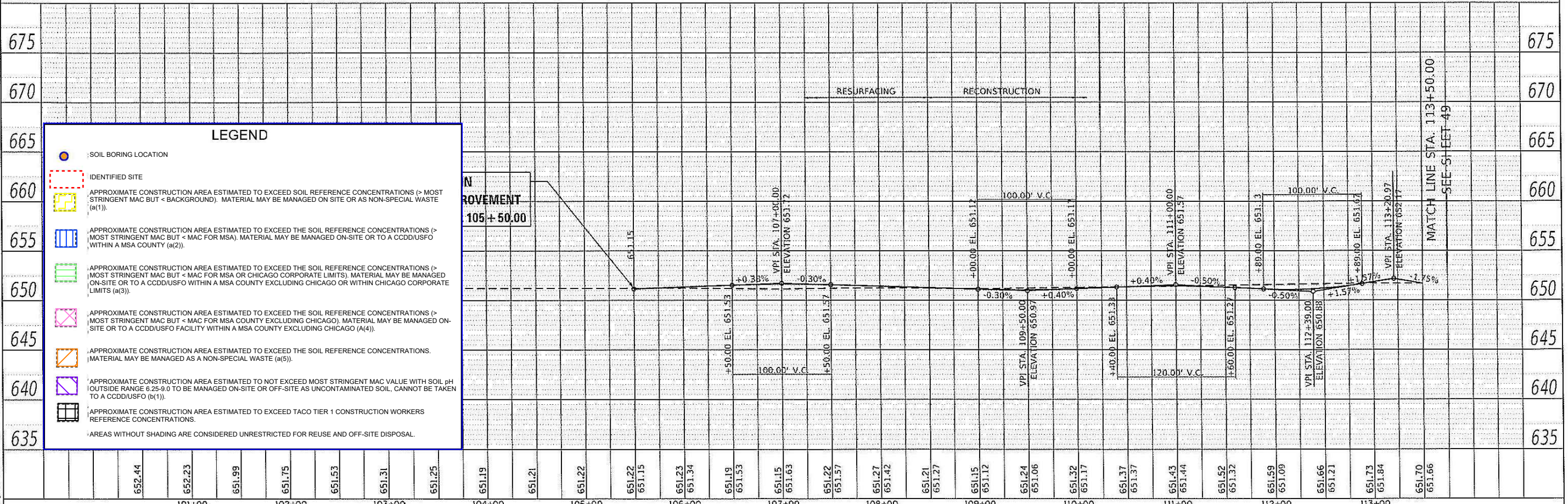
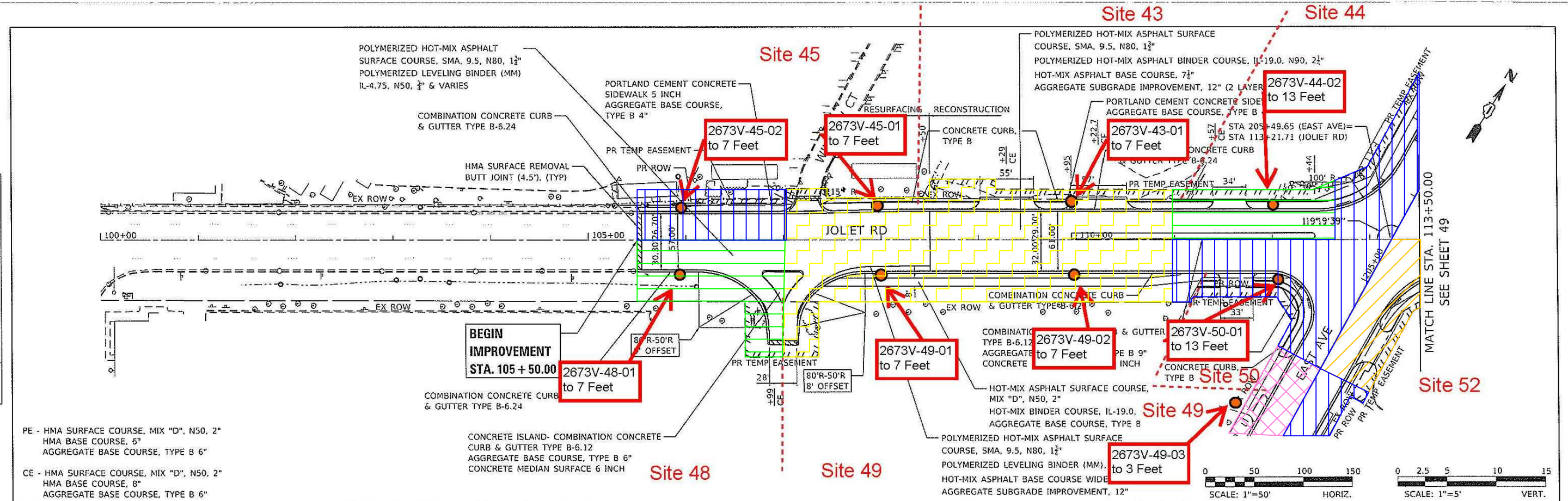


LEGEND	
	SOIL BORING LOCATION
	IDENTIFIED SITE
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < BACKGROUND). MATERIAL MAY BE MANAGED ON SITE OR AS NON-SPECIAL WASTE (a(1)).
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDDIUSFO 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 CCDDIUSFO 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 CCDDIUSFO 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 CCDDIUSFO (a(1)).
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED TACO TIER 1 CONSTRUCTION WORKERS REFERENCE CONCENTRATIONS.
	AREAS WITHOUT SHADING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.

	USER NAME = jahn	DESIGNED - JMT	REVISED -	FIGURE 4-1.4 Extent of Potentially Impacted Soil Huff & Huff, Inc. WO #33A	EAST AVE. PLAN AND PROFILE-IV EAST AVENUE (55TH ST. TO JOLIET RD.)	F.A.U. RTE. 2719	SECTION 0102N&T	COUNTY COOK	TOTAL SHEETS 354	SHEET NO. 47
	PLOT SCALE = 1/8" = 1'-0"	DRAWN - JN	REVISED -			CONTRACT NO. 62C25				
	PLOT DATE = 6/7/2019	CHECKED - TGM	REVISED -							
	DATE = 04/13/2018	DATE -	REVISED -							

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NO.	
DESCRIPTION	
DATE	
BY	
REVISION	
NO.	
DESCRIPTION	



652.44	652.23	651.99	651.75	651.53	651.31	651.25	651.19	651.21	651.22	651.22	651.15	651.23	651.34	651.19	651.53	651.15	651.63	651.22	651.57	651.27	651.42	651.21	651.27	651.15	651.12	651.24	651.06	651.32	651.17	651.37	651.37	651.43	651.44	651.52	651.32	651.59	651.09	651.66	651.21	651.73	651.84	651.70	651.66			
101+00	102+00	103+00	104+00	105+00	106+00	107+00	108+00	109+00	110+00	111+00	112+00	113+00																																		



USER NAME	JOHN	DESIGNED	JMT	REVISED	-
DRAWN	JN	CHECKED	TGM	REVISION	-
DATE	04/13/2018				

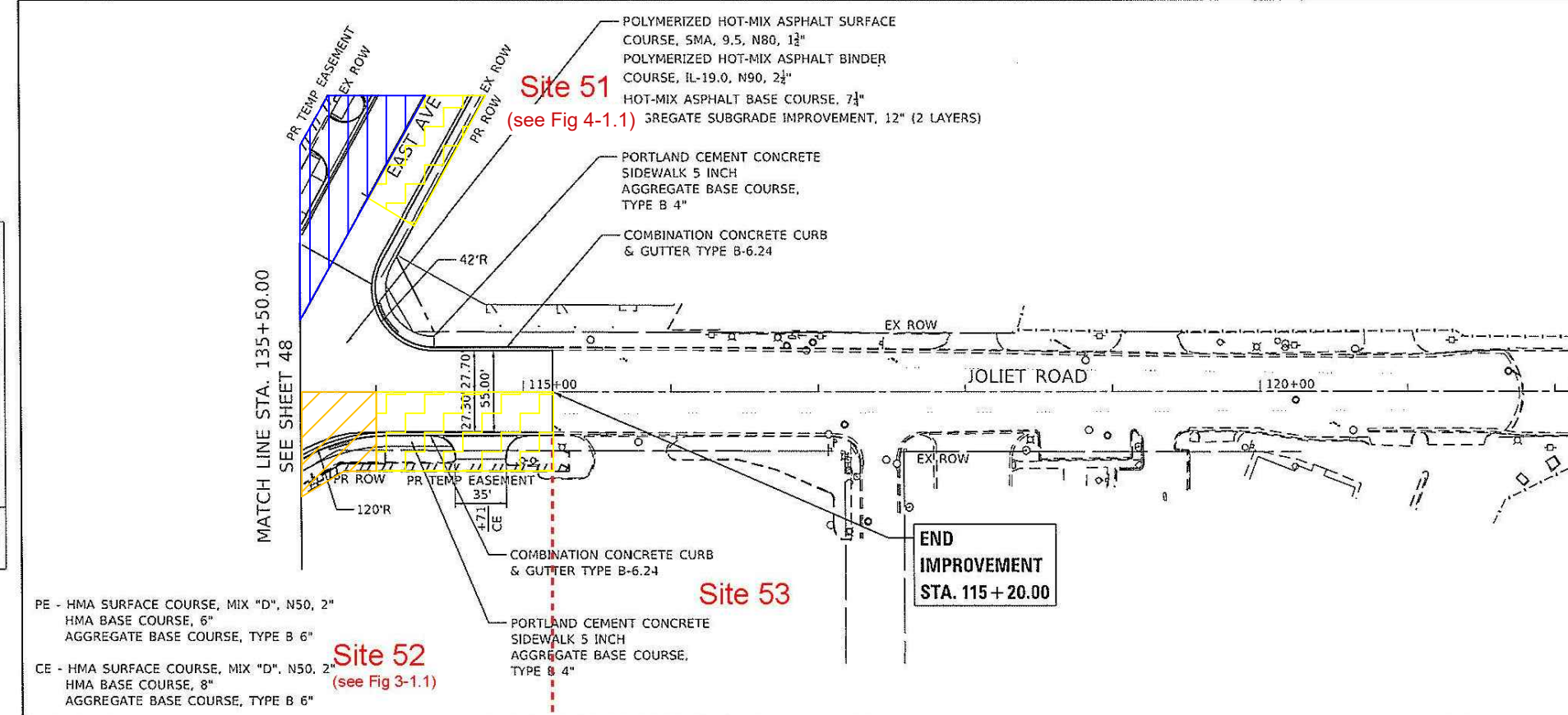
FIGURE 4-1.5 Extent of Potentially Impacted Soil
 Huff & Huff, Inc. WO #33A

JOLIET RD. PLAN AND PROFILE-I
 EAST AVENUE (55TH ST. TO JOLIET RD.)

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	354	48
SHEET OF SHEETS		STA. TO STA.	ILLINOIS FED. AID PROJECT	

PLAN	DATE

PROFILE	DATE



PE - HMA SURFACE COURSE, MIX "D", N50, 2"
HMA BASE COURSE, 6"
AGGREGATE BASE COURSE, TYPE B 6"

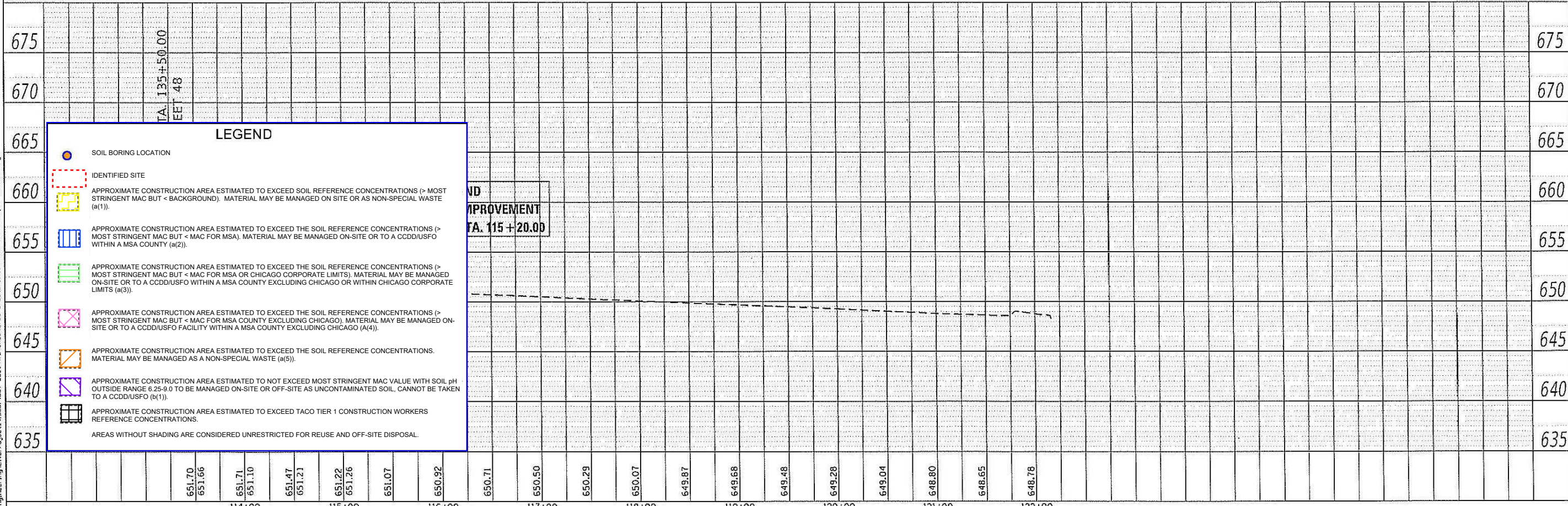
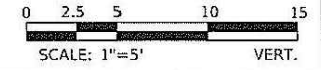
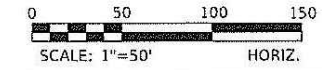
CE - HMA SURFACE COURSE, MIX "D", N50, 2"
HMA BASE COURSE, 8"
AGGREGATE BASE COURSE, TYPE B 6"

Site 51
(see Fig 4-1.1)

Site 52
(see Fig 3-1.1)

Site 53

END IMPROVEMENT STA. 115 + 20.00



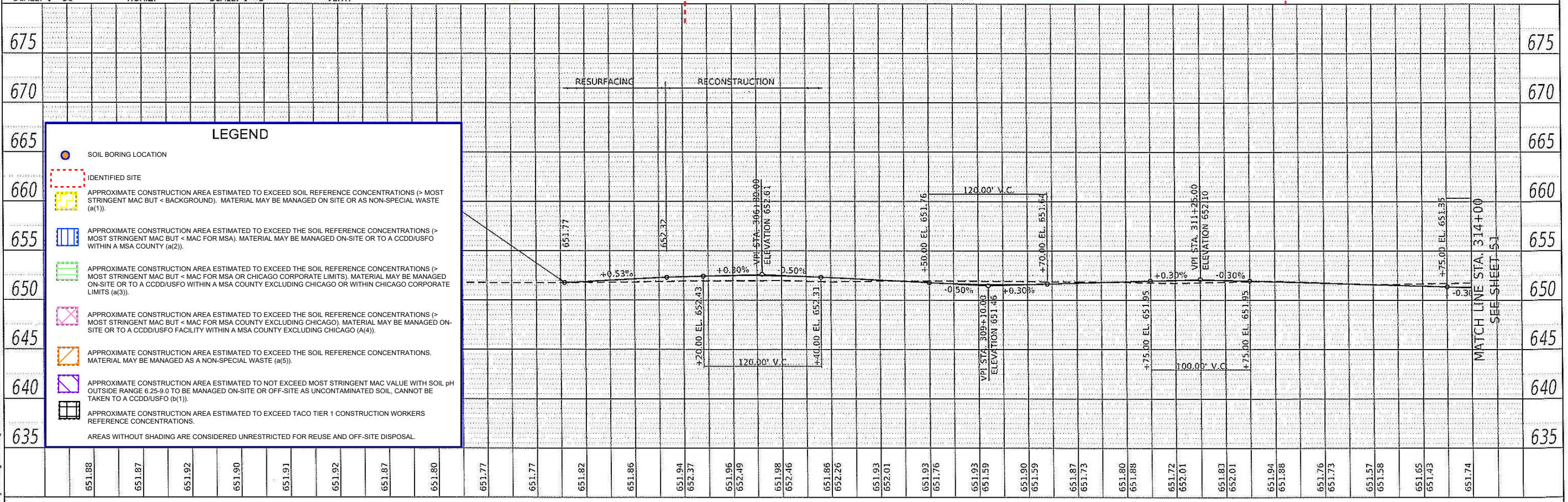
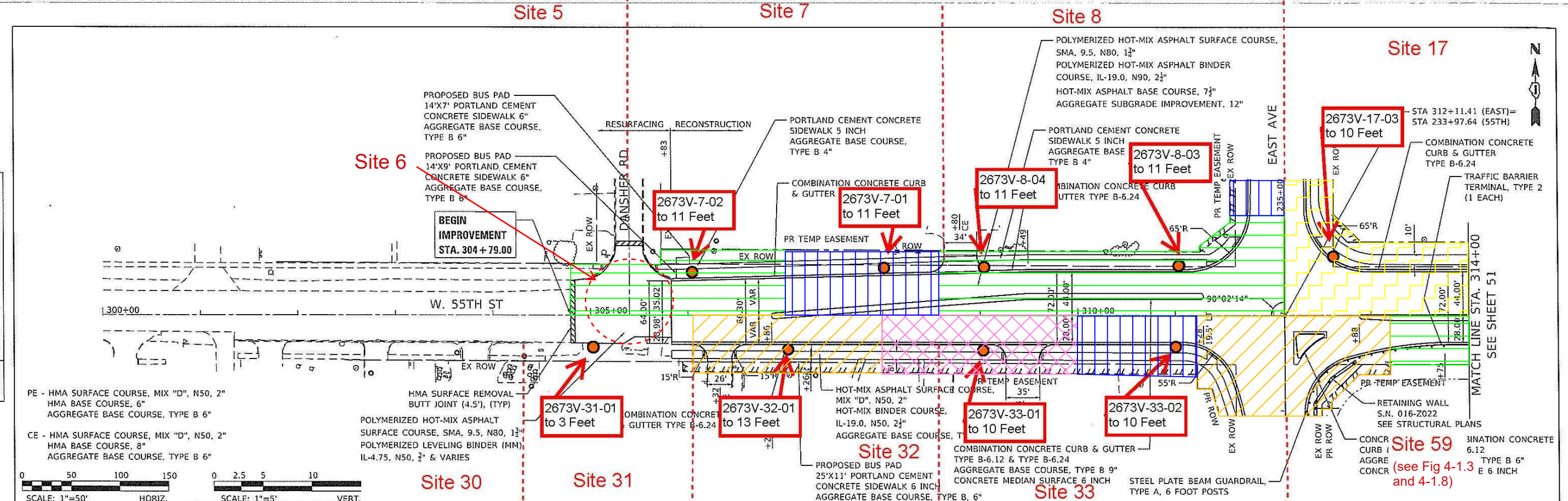
LEGEND	
	SOIL BORING LOCATION
	IDENTIFIED SITE
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < BACKGROUND). MATERIAL MAY BE MANAGED ON SITE OR AS NON-SPECIAL WASTE (a(1)).
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDDIUSFO 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 CCDDIUSFO 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 CCDDIUSFO 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 CCDDIUSFO (b(1)).
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED TACO TIER 1 CONSTRUCTION WORKERS REFERENCE CONCENTRATIONS.
	AREAS WITHOUT SHADING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.

END IMPROVEMENT STA. 115 + 20.00

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BY	
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FILE NAME : D:\Engineering\Live\Projects\13031 1001 East Ave\000\0000 Sheets\Civil\0102\29\st-1\Fig 4-1.7 55th Ldgpr



LEGEND	
	SOIL BORING LOCATION
	IDENTIFIED SITE
	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 CCDDI/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 CCDDI/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 CCDDI/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 CCDDI/USFO (b(1)).
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED TACO TIER 1 CONSTRUCTION WORKERS REFERENCE CONCENTRATIONS.
	AREAS WITHOUT SHADING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.



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DRAWN - JN	CHECKED - TGM	REVISED -
DATE - 04/13/2018		

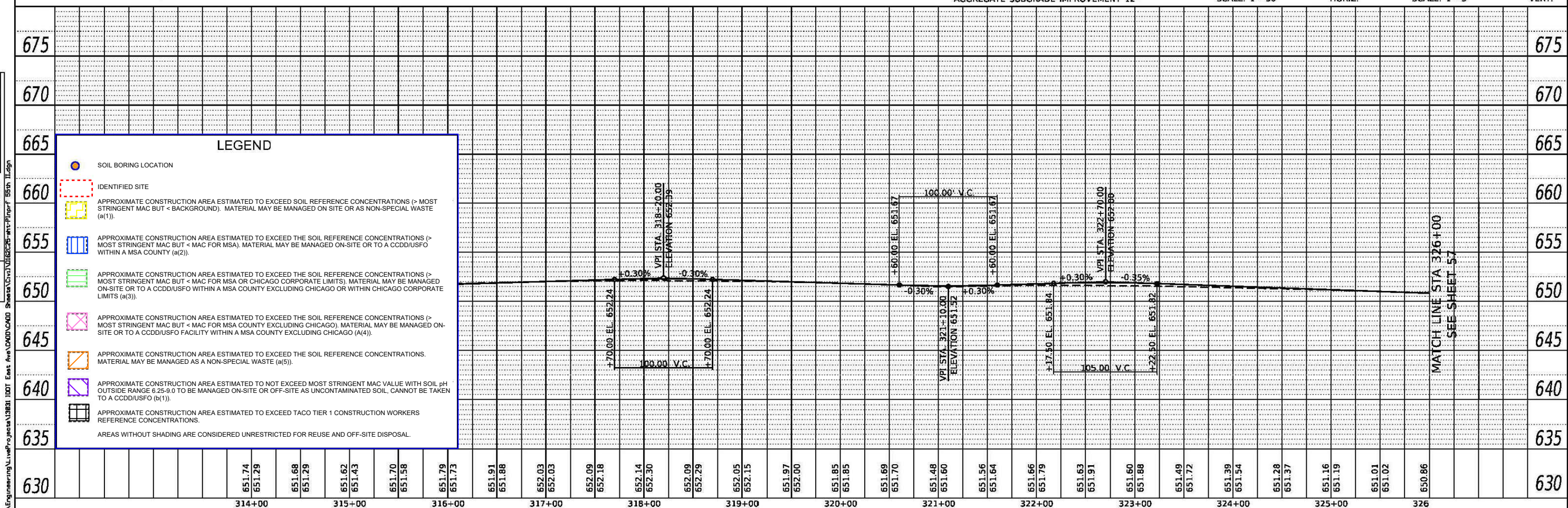
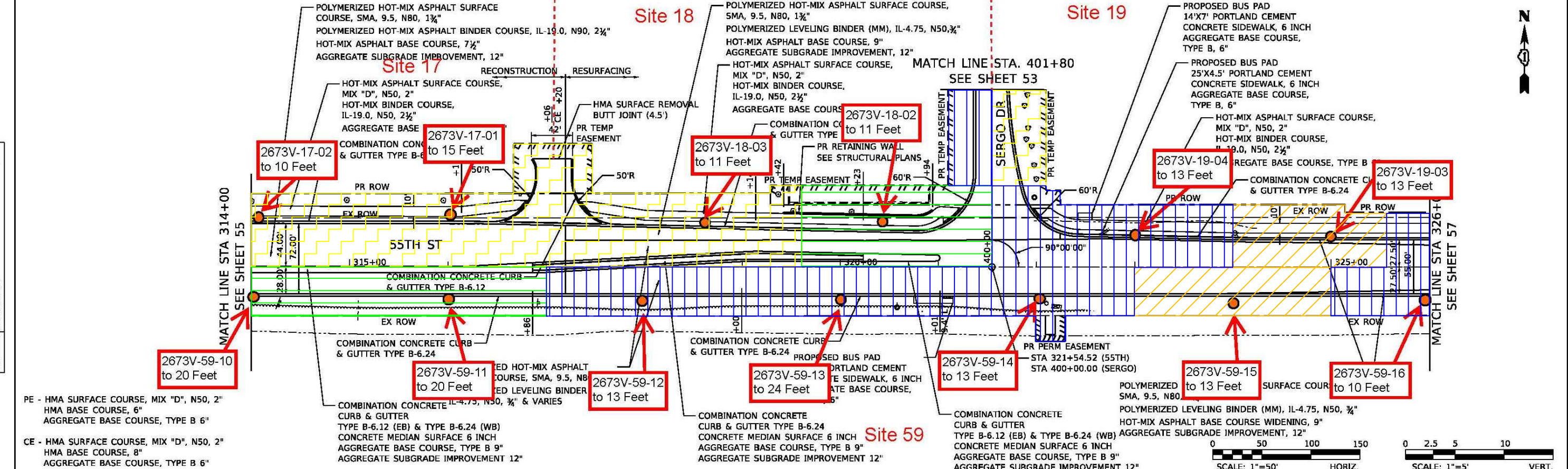
FIGURE 4-1.7 Extent of Potentially Impacted Soil
Huff & Huff, Inc. WO #33A

55TH ST. PLAN AND PROFILE-1	
EAST AVENUE (55TH ST. TO JOLIET RD.)	
SCALE: 1"=50'	SHEET OF SHEETS STA. 305+83 TO STA. 314+00

F.A.A. RTE. 2719	SECTION 0102N&T	COUNTY COOK	TOTAL SHEETS 354	SHEET NO. 50
CONTRACT NO. 62C25			ILLINOIS FED. AID PROJECT	

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	NO. OF DAYS CHECKED	
	DATE FILE NAME	

PROFILE	SURVEYED	DATE
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	NO. OF DAYS CHECKED	
	DATE FILE NAME	

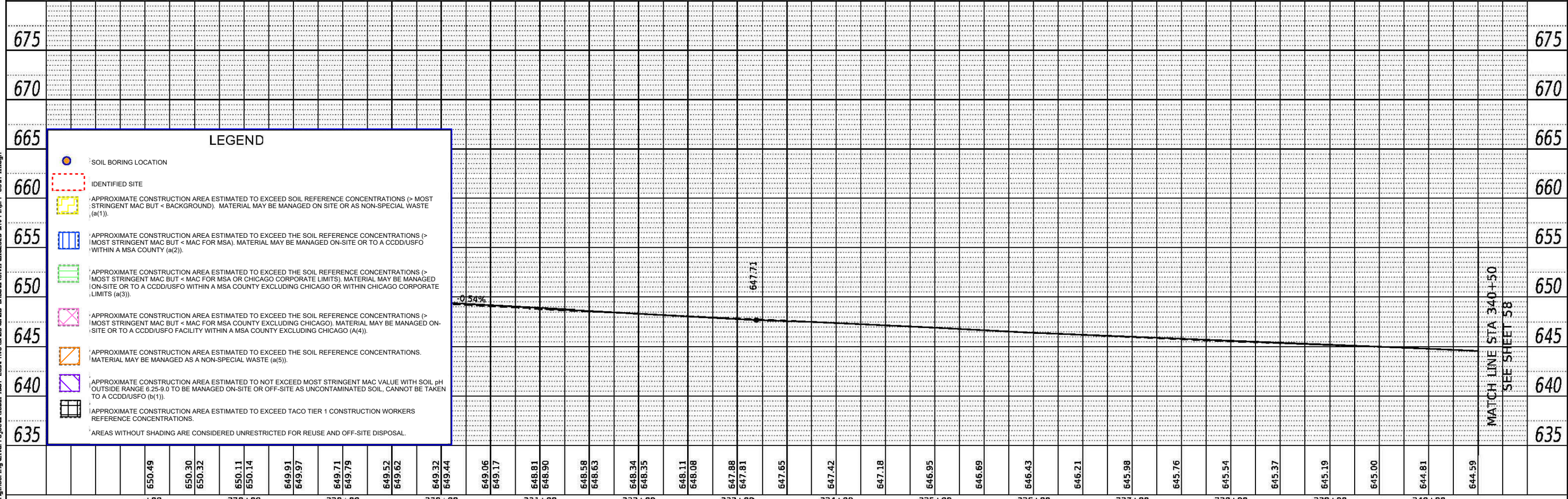
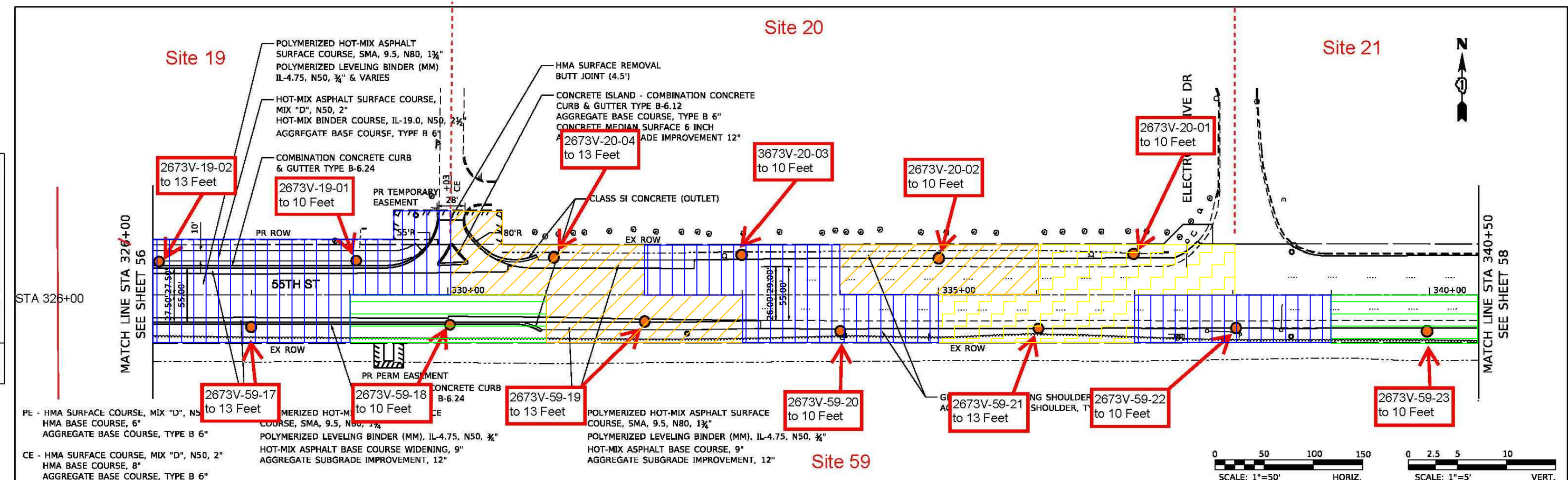


LEGEND	
	SOIL BORING LOCATION
	IDENTIFIED SITE
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < BACKGROUND). MATERIAL MAY BE MANAGED ON-SITE OR AS NON-SPECIAL WASTE (a)(1).
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE 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 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 6.25-8.0 TO BE MANAGED ON-SITE OR OFF-SITE AS UNCONTAMINATED SOIL. CANNOT BE TAKEN TO A CCDD/USFO (a)(1).
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED TACO TIER 1 CONSTRUCTION WORKERS REFERENCE CONCENTRATIONS.
	AREAS WITHOUT SHADING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.

FILE NAME = D:\Engineering\Live\Projects\13831 IDOT East Ave\CD\CD\00 Sheets\Civil\13831-05-55th-Plan-Profile.dgn	USER NAME = john	DESIGNED - JMT	REVISED -	FIGURE 4-1.8 Extent of Potentially Impacted Soil Huff & Huff, Inc. WO #33A	55TH ST PLAN AND PROFILE - II EAST AVENUE (55TH ST TO JOLIET RD)			F.A.I. RTE. = 2719	SECTION = 0102N&T	COUNTY = COOK	TOTAL SHEETS = 373	SHEET NO. = 56
	PLOT SCALE = 1/8"=50'	DRAWN - JN	REVISED -		SCALE: 1"=50'	SHEET OF SHEETS	STA. 314+00 TO STA. 325+00	CONTRACT NO. 62C25				
	PLOT DATE = 9/13/2019	CHECKED - TGM	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE = 09/13/2019	REVISED -									

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	NO. OF MAY CHECKED	
	DATE FILE NAME	

PROFILE	SURVEYED	DATE
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	NO. OF MAY CHECKED	
	DATE FILE NAME	



Accurate GROUP, INC.

USER NAME = john
 DESIGNED - JMT
 DRAWN - JN
 CHECKED - TGM
 DATE - 09/13/2019

REVISIONS:
 REVISED -
 REVISED -
 REVISED -
 REVISED -

FIGURE 4-1.9 Extent of Potentially Impacted Soil
 Huff & Huff, Inc. WO #33A

55TH ST PLAN AND PROFILE - III
 EAST AVENUE (55TH ST TO JOLIET RD)

SCALE: 1"=50' SHEET OF SHEETS STA. 325+50 TO STA. 340+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	373	57

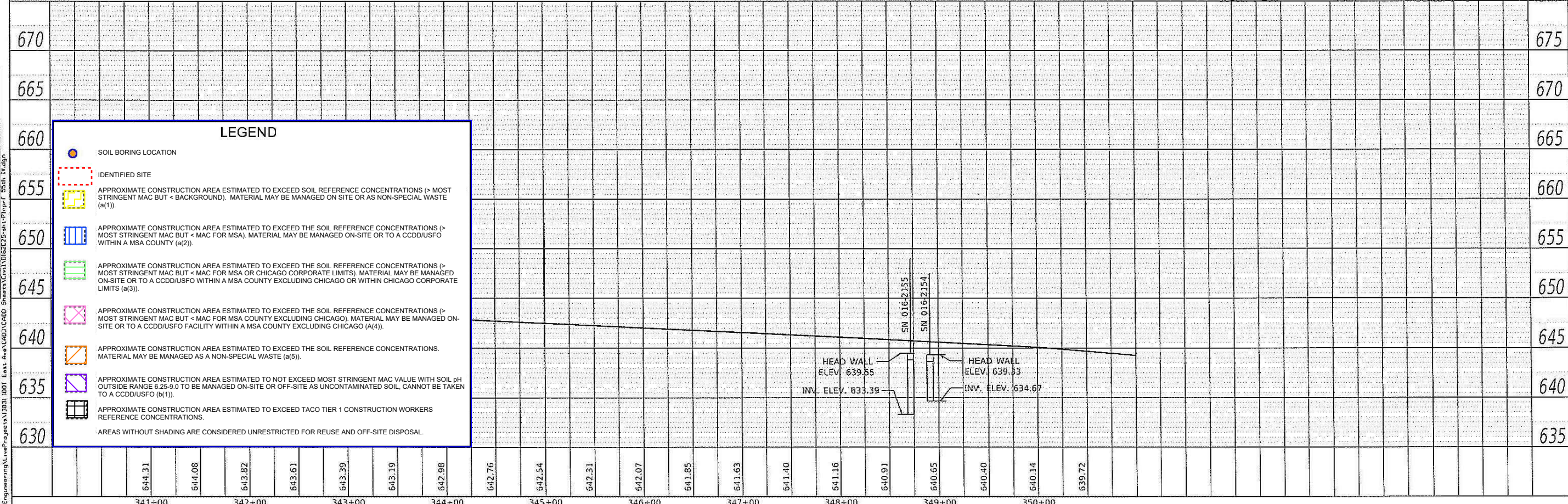
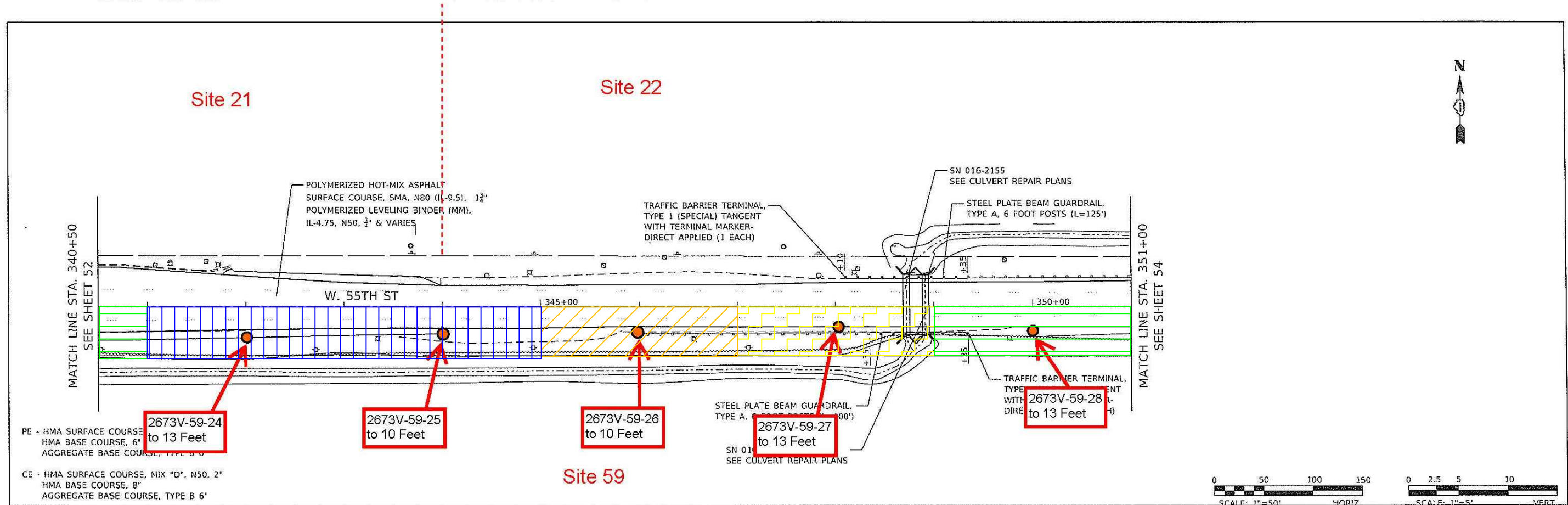
CONTRACT NO. 62C25
 ILLINOIS FED. AID PROJECT



Site 21

Site 22

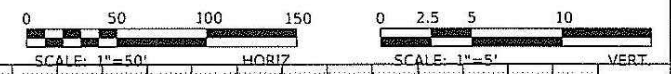
Site 59



LEGEND

- SOIL BORING LOCATION
- IDENTIFIED SITE
- 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)).
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- 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)).
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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 SHADING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.



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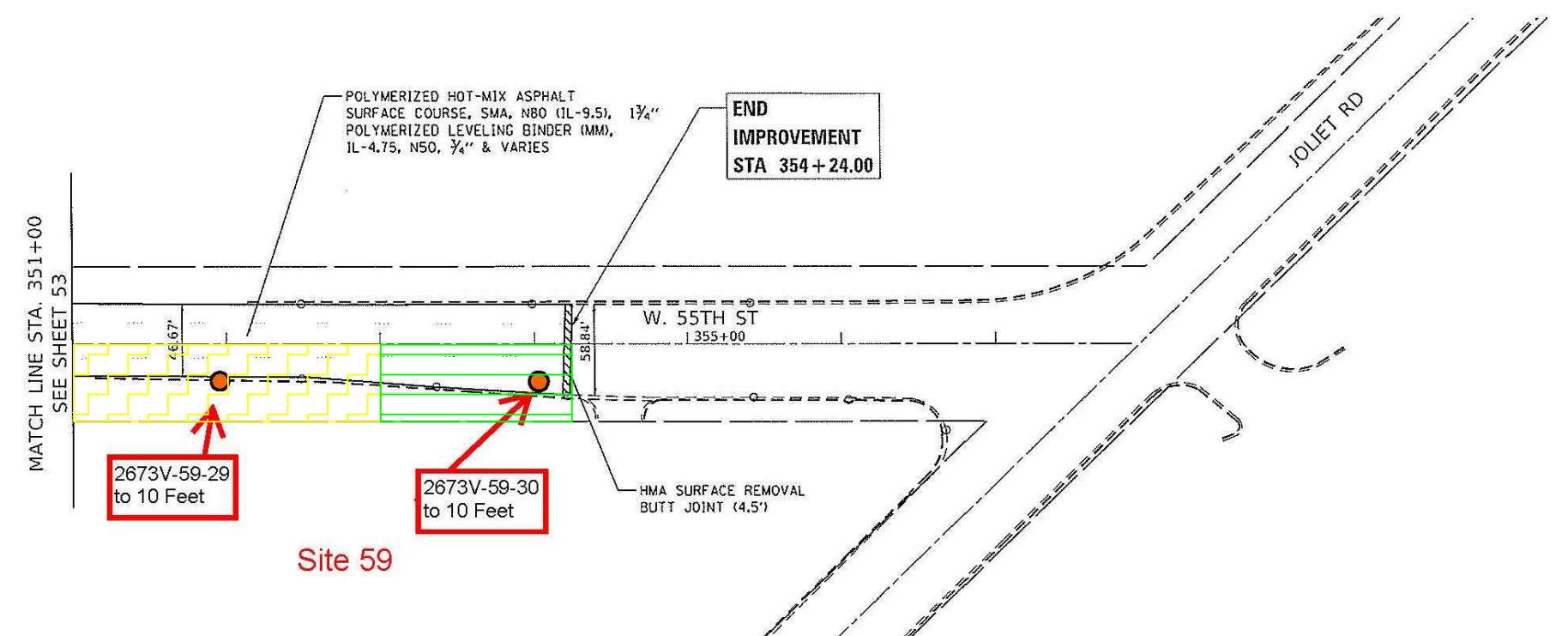
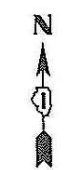
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USER NAME = johnn	DESIGNED - JMT	REVISED -																							
DRAWN - JN	REVISED -																								
CHECKED - TGM	REVISED -																								
DATE - 04/13/2018	REVISED -																								
F.A.U. R.T.E. 2719	SECTION 0102N&T	COUNTY COOK	TOTAL SHEETS 354	SHEET NO. 53																					
CONTRACT NO. 62C25			ILLINOIS FED. AID PROJECT																						
<p>Accurate GROUP, INC.</p>		<p>55TH ST. PLAN AND PROFILE-IV EAST AVENUE (55TH ST. TO JOLIET RD.)</p>	<p>SHEET OF SHEETS STA. 340+50 TO STA. 349+35</p>																						

Site 22



Site 59

LEGEND

- SOIL BORING LOCATION
- IDENTIFIED SITE
- 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 CCDDIUSFO WITHIN A MSA COUNTY (a(2)).
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AREAS WITHOUT SHADING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.

FILE NAME = D:\Engineering\NewProjects\3033_1001_East_Ave\CAD\CADD_Sheets\Civil\052025-ah-Pln_55th_V.dgn



USER NAME = johnn	DESIGNED - JMT	REVISED -
PLOT SCALE = 100.0000 1" = 100'	DRAWN - JN	REVISED -
PLOT DATE = 6/7/2019	CHECKED - TGM	REVISED -
	DATE - 07/31/2018	REVISED -

FIGURE 4-1.11 Extent of Potentially Impacted Soil
Huff & Huff, Inc. WO #33A

55TH ST. PLAN AND PROFILE-V
EAST AVENUE (55TH ST. TO JOLIET RD.)

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	354	54
CONTRACT NO. 62C25			ILLINOIS FED. AID PROJECT	

SHEET OF SHEETS STA. 350+00 TO STA. 354+24

LPC-663 Results
Soils for Reuse or Disposal at CCDD Facilities in MSA Counties + Chgo
IDOT, District One
East Avenue, 55th St to Joliet Rd
Countryside, Illinois
BDE Sequence No.: 17471B
PTB: 178-008/HH-1, Work Order No.: 33A

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/}	2673V-7-01	2673V-7-01	2673V-7-02	2673V-7-02	2673V-8-02	2673V-8-02	2673V-8-03	2673V-8-03	2673V-8-04	2673V-8-04	2673V-9-01	2673V-9-01	2673V-9-01		
				(0-5)	(5-11)	(0-5)	(5-11)	(0-5)	(5-11)	(0-5)	(5-11)	(0-5)	(5-11)	(0-5)	(5-11)	(0-5)	(5-10)	(10-13)
				2/24/2020	2/24/2020	2/24/2020	2/24/2020	2/24/2020	2/24/2020	2/24/2020	2/24/2020	2/24/2020	2/24/2020	2/24/2020	2/24/2020	2/24/2020	2/24/2020	2/24/2020
Parameter	2673V-7				2673V-8								2673V-9					
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	8.86	8.41	8.5	8.05	8.33	8.92	8.2	7.57	8.18	8.63	8.77	8.14	8.74		
VOCs, mg/kg	NO EXCEEDANCES																	
SVOCs, mg/kg																		
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	0.09	<0.09	<0.09	0.246	<0.09	<0.09	<0.09	0.211	0.154	0.717	<0.09	0.287	<0.09	<0.09		
Benzo(b)fluoranthene	0.9 / 1.5 / 2.1	170	0.9	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.648	<0.33	<0.33	<0.33	<0.33		
Dibenz(a,h)anthracene	0.09 / 0.2 / 0.42	17	0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	0.119	<0.09	<0.09	<0.09	<0.09		
Total Metals, mg/kg																		
Arsenic	11.3 / 13	61	13	5.1	3.8	6	9.1	5.9	7.6	4.9	5.7	6.6	12.6	5.7	6.3	6.8		
Beryllium	22	410	160	0.5	<0.5	0.6	0.6	0.8	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	0.7		
Chromium	21	690	230	18.9	12.2	20.5	19.1	25.2	21.7	14	13.2	18	11.4	15.6	22.5	22.3		
Cobalt	20	12,000	4700	9.8	7	11.8	12.7	13.3	8.9	7	6.7	11.2	13.9	6.6	14.5	9.9		
Iron	15,000 / 15,900	---	---	19800	14500	23200	24600	28400	26600	17000	19700	23300	24600	19600	25300	25400		
Lead	107	700	400	38.5	9.5	15.1	15	15.5	11.5	27.6	32.2	12.3	17.4	41.1	12	10.8		
Manganese	630 / 636	4,100	1600	440	325	462	302	683	268	350	270	394	436	292	510	277		
Nickel	100	4,100	1600	26.7	18.5	31.3	32.4	33.7	27.1	18.7	18.1	30.3	31.6	17.7	38.9	31.1		
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	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010		
Beryllium	0.004			<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		
Chromium	0.1			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<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	<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	<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	0.006	<0.005	<0.005	0.006	<0.005	<0.005		
Manganese	0.15			<0.1	7.4	5.9	4.3	0.1	2.6	0.8	4.5	4	5.9	0.2	0.4	2.7		
Nickel	0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<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			0.045	<0.010	0.032	<0.010	<0.010	0.034	<0.010	0.07	0.036	0.014	0.013	0.074	0.035		
Beryllium	0.004			0.004	<0.004	0.004	<0.004	<0.004	0.004	<0.004	0.005	<0.004	<0.004	<0.004	0.009	0.004		
Chromium	0.1			0.122	0.018	0.129	0.005	0.025	0.112	0.006	0.15	0.097	0.015	0.099	0.258	0.14		
Cobalt	1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Iron	5			140	20.4	145	4	23.5	121	4.4	170	112	28.5	102	256	144		
Lead	0.0075			0.124	0.009	0.076	<0.005	0.006	0.05	<0.005	0.085	0.179	0.022	0.083	0.088	0.056		
Manganese	0.15			0.7	0.2	1.7	<0.1	<0.1	0.5	<0.1	1.2	0.9	0.2	0.3	1.6	0.9		
Nickel	0.1			0.1	<0.1	0.2	<0.1	<0.1	0.1	<0.1	0.2	0.1	<0.1	<0.1	0.3	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
^{b/} Soil Remediation Objective for Construction Workers, most stringent of the Ingestion or Inhalation exposure route
^{c/} Soil Remediation Objective for Residential exposure, most stringent of the Ingestion or Inhalation exposure route
^{d/} Soil Remediation Objective for the Groundwater Component of the Groundwater Ingestion Route. Class I Groundwater.
Bold indicates concentration detected
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LPC-663 Results
 Soils for Reuse or Disposal at CCDD Facilities in MSA Counties + Chgo
 IDOT, District One
 East Avenue, 55th St to Joliet Rd
 Countryside, Illinois
 BDE Sequence No.: 17471B
 PTB: 178-008/HH-1, Work Order No.: 33A

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/}	2673V-17-06	2673V-17-06	2673V-18-01	2673V-Dup-09 (2673V-18-01)	2673V-18-02	2673V-18-02	2673V-19-01	2673V-19-01	2673V-19-02	2673V-19-02	2673V-19-02	2673V-19-04	2673V-19-04	2673V-Dup-02 (2673V-19-04)	2673V-19-04		
				(0-5)	(5-10)	(0-3)	(0-3)	(0-5)	(5-11)	(0-5)	(5-10)	(0-5)	(5-10)	(10-13)	(0-5)	(5-10)	(5-10)	(5-10)	(10-13)	
				2/19/2020	2/19/2020	2/24/2020	2/24/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020
				2673V-17		2673V-18				2673V-19										
Parameter																				
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	8.55	8.99	8.48	8.39	8.57	8.41	8.08	8.36	8.63	8.22	8.12	8.82	8.16	8.78	7.66		
VOCs, mg/kg				NO EXCEEDANCES																
SVOCs, mg/kg																				
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	0.09	<0.09	<0.09	<0.09	<0.09	0.113	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09		
Benzo(b)fluoranthene	0.9 / 1.5 / 2.1	170	0.9	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33		
Dibenz(a,h)anthracene	0.09 / 0.2 / 0.42	17	0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09		
Total Metals, mg/kg																				
Arsenic	11.3 / 13	61	13	11.3	8	13	6.4	9.2	9.2	8.1	7.8	10.1	6.8	3.1	6.3	10.1	18.9	7.9		
Beryllium	22	410	160	0.9	0.6	0.7	0.6	0.7	0.6	0.7	<0.5	<0.5	<0.5	<0.5	0.9	0.7	0.6	0.5		
Chromium	21	690	230	28.6	21.1	22.1	19.5	19.8	17.7	15.2	9.4	8.5	14.7	25	23.8	20.3	14.7	20		
Cobalt	20	12,000	4700	14.6	9.3	13	8.1	12.3	16.3	8.3	6	8.5	9.5	6.8	10.6	16.2	12.8	9.9		
Iron	15,000 / 15,900	---	---	35900	25400	30400	22800	26100	23300	20400	15900	16900	17300	20300	25900	26200	30300	22300		
Lead	107	700	400	16.6	11.4	17.8	17.6	65.7	14	22.5	14.1	18.3	10.2	26.5	18.4	20.4	28.6	10.9		
Manganese	630 / 636	4,100	1600	391	305	531	366	434	508	218	163	312	281	267	339	402	199	280		
Nickel	100	4,100	1600	48.8	27.5	37.4	21.1	25.3	39.3	21	24.9	24.1	23.9	26.4	34	39.6	40.5	30.3		
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	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010		
Beryllium	0.004			<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		
Chromium	0.1			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<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	<0.1	<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	0.4	<0.1	<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	0.007	<0.005	0.027	<0.005	<0.005	<0.005	<0.005	0.006	<0.005	<0.005	<0.005		
Manganese	0.15			0.1	2.1	<0.1	0.2	0.2	1	3.6	0.8	0.8	2.4	3	2.9	1	5.1	1.2		
Nickel	0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<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			0.113	0.062	0.014	<0.010	0.053	0.036	0.023	0.038	0.032	<0.010	<0.010	0.039	0.027	0.057	0.021		
Beryllium	0.004			0.01	0.007	<0.004	<0.004	0.007	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.009	<0.004	0.005	<0.004		
Chromium	0.1			0.294	0.219	0.13	0.023	0.22	0.05	0.086	0.086	0.036	0.006	<0.005	0.23	0.059	0.12	0.074		
Cobalt	1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Iron	5			346	227	113	22.3	189	72.3	87.9	99.7	61.4	4	1.4	214	73.7	142	72.2		
Lead	0.0075			0.108	0.103	0.031	0.01	0.671	0.038	0.078	0.044	0.057	<0.005	<0.005	0.126	0.035	0.063	0.027		
Manganese	0.15			1.5	1.5	0.8	0.1	1.1	0.2	0.8	0.6	0.2	<0.1	<0.1	2.1	0.4	0.8	0.5		
Nickel	0.1			0.4	0.3	0.1	<0.1	0.2	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	0.3	<0.1	0.2	<0.1		

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^{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
^{b/} Soil Remediation Objective for Construction Workers, most stringent of the Ingestion or Inhalation exposure route
^{c/} Soil Remediation Objective for Residential exposure, most stringent of the Ingestion or Inhalation exposure route
^{d/} Soil Remediation Objective for the Groundwater Component of the Groundwater Ingestion Route. Class I Groundwater.
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LPC-663 Results
 Soils for Reuse or Disposal at CCDD Facilities in MSA Counties + Chgo
 IDOT, District One
 East Avenue, 55th St to Joliet Rd
 Countryside, Illinois
 BDE Sequence No.: 17471B
 PTB: 178-008/HH-1, Work Order No.: 33A

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/}	2673V-20-03	2673V-20-03	2673V-33-02	2673V-33-02	2673V-33-04	2673V-33-04	2673V-33-04	2673V-37-02	2673V-37-02	2673V-37-02	2673V-37-03	2673V-37-03	2673V-Dup-21 (2673V-37-03)
				(0-5)	(5-10)	(0-5)	(5-10)	(0-5)	(5-10)	(10-15)	(0-5)	(5-10)	(10-13)	(0-5)	(5-10)	(5-10)
				2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020
Parameter				2673V-20			2673V-33			2673V-37						
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	8.42	8.54	8.48	8.45	7.52	8.46	8.54	8.02	8.59	8.6	8.66	8.49	8.46
VOCs, mg/kg	NO EXCEEDANCES															
SVOCs, mg/kg																
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	1.04	<0.09	<0.09	<0.09	<0.09	<0.09
Benzo(b)fluoranthene	0.9 / 1.5 / 2.1	170	0.9	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	1.08	<0.33	<0.33	<0.33	<0.33	<0.33
Dibenz(a,h)anthracene	0.09 / 0.2 / 0.42	17	0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	0.148	<0.09	<0.09	<0.09	<0.09	<0.09
Total Metals, mg/kg																
Arsenic	11.3 / 13	61	13	8.4	3.5	6.5	7.5	10.5	5.8	3.9	8.2	4.5	10.8	5.1	6.5	5.8
Beryllium	22	410	160	0.5	0.6	0.7	0.6	0.8	<0.5	0.5	0.8	0.5	0.6	<0.5	0.5	0.7
Chromium	21	690	230	15.5	19.1	21.2	21.7	23	21.1	19.9	26.3	19.3	20.8	12.1	17	21.6
Cobalt	20	12,000	4700	15.5	6.1	10.1	15.7	11.3	12.3	7.2	9.8	10.4	10.1	5.8	7.9	11.7
Iron	15,000 / 15,900	---	---	21100	19600	22400	23800	27400	22500	20600	22300	18900	22200	14700	18300	22900
Lead	107	700	400	14.9	7.0	11	12.3	53.5	10.1	10.3	57.8	10.3	12.4	12.2	17.4	11.8
Manganese	630 / 636	4,100	1600	529	231	341	373	476	364	249	435	311	305	247	298	414
Nickel	100	4,100	1600	36.8	24.2	29.8	31.8	31.1	32.5	25.1	22.8	28.1	29.2	18.1	22.8	30.8
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	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Beryllium	0.004			<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chromium	0.1			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<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	<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	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese	0.15			0.7	0.8	0.1	0.5	0.2	0.4	0.9	0.4	1.3	1.5	0.3	0.5	3
Nickel	0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<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			0.066	0.013	<0.010	0.01	0.012	<0.010	<0.010	<0.010	0.03	<0.010	<0.010	<0.010	0.024
Beryllium	0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.005	<0.004	<0.004	<0.004	<0.004
Chromium	0.1			0.115	0.056	0.006	0.048	0.071	0.01	<0.005	0.02	0.182	0.006	0.022	<0.005	0.07
Cobalt	1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Iron	5			141	57.4	4	50	74.9	8.1	1.8	16.6	190	4.1	23.7	3.3	76.4
Lead	0.0075			0.06	0.024	<0.005	0.021	0.045	<0.005	<0.005	0.018	0.097	<0.005	0.014	<0.005	0.034
Manganese	0.15			0.6	0.4	<0.1	0.3	0.6	<0.1	<0.1	<0.1	2.2	<0.1	0.1	<0.1	0.6
Nickel	0.1			0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	<0.1	<0.1	<0.1	<0.1

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^{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
^{b/} Soil Remediation Objective for Construction Workers, most stringent of the Ingestion or Inhalation exposure route
^{c/} Soil Remediation Objective for Residential exposure, most stringent of the Ingestion or Inhalation exposure route
^{d/} Soil Remediation Objective for the Groundwater Component of the Groundwater Ingestion Route. Class I Groundwater.
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BDE Sequence No.: 17471B
PTB: 178-008/HH-1, Work Order No.: 33A

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/}	2673V-40-02	2673V-40-02	2673V-42-01	2673V-42-01	2673V-Dup-22 (2673V-42-01)	2673V-42-03	2673V-42-03	2673V-44-01	2673V-44-01	2673V-44-01	2673V-44-02	2673V-44-02	2673V-44-02	2673V-45-02	2673V-45-02		
				(0-5)	(5-10)	(0-5)	(5-10)	(5-10)	(0-5)	(5-10)	(0-5)	(5-10)	(10-13)	(0-5)	(5-10)	(10-13)	(0-4)	(4-7)		
				2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020
Parameter					2673V-40				2673V-42				2673V-44				2673V-45			
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	7.88	7.98	7.73	8.27	7.89	7.71	8.17	8.8	8.21	8.34	8.49	8.53	8.57	8.9	8.37		
VOCs, mg/kg	NO EXCEEDANCES																			
SVOCs, mg/kg																				
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	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09		
Benzo(b)fluoranthene	0.9 / 1.5 / 2.1	170	0.9	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33		
Dibenz(a,h)anthracene	0.09 / 0.2 / 0.42	17	0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09		
Total Metals, mg/kg																				
Arsenic	11.3 / 13	61	13	8	6.6	6.9	9.7	8.3	6.5	10.4	4.4	4.6	4.1	9.1	8.9	2.3	7.6	2		
Beryllium	22	410	160	0.8	0.7	0.6	0.7	<0.5	0.7	0.5	0.6	0.5	0.7	1.2	0.5	0.6	0.6	0.7		
Chromium	21	690	230	18.8	22.4	18.7	18.6	15.1	21	15.8	21	21.3	23.7	22.5	19.9	21.3	22.1	22.7		
Cobalt	20	12,000	4700	11.6	14	12.8	14.5	6	11.4	14	7.2	10	8.4	7.1	15.6	7.5	8.2	7		
Iron	15,000 / 15,900	---	---	23100	23000	22200	28600	18300	22900	24500	21600	21500	22000	30100	23700	20900	25400	20700		
Lead	107	700	400	30.4	11.7	20.8	16.4	11.3	17	15.8	19	15.1	10.7	12.5	15.6	16.1	10.5	8.6		
Manganese	630 / 636	4,100	1600	671	629	409	620	216	301	422	339	342	283	214	523	276	240	236		
Nickel	100	4,100	1600	26.8	36.8	28	38.8	22.4	22.3	36.9	27.1	29.2	28.2	26.1	36.7	26.7	28.1	27		
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	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010		
Beryllium	0.004	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		
Chromium	0.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<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	<0.1	<0.1	<0.1	<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	0.2	0.1	0.1	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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
Manganese	0.15	0.2	0.6	0.4	0.1	0.2	0.1	0.2	<0.1	1.3	6.9	0.8	0.8	0.7	2.5	1.8	1.9	2.3		
Nickel	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<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	0.017	<0.010	0.036	0.02	0.016	0.049	0.048	<0.010	<0.010	0.033	0.045	0.02	0.058	0.052				
Beryllium	0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.004	0.004	0.007	<0.004	<0.004	0.007	0.005	0.006	0.007	0.006			
Chromium	0.1	0.007	0.046	0.03	0.043	0.029	0.101	0.091	0.167	0.007	0.013	0.204	0.108	0.148	0.188	0.199				
Cobalt	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
Iron	5	5.7	42.4	30.6	58.3	34.7	92.1	115	159	4.8	10.2	180	117	127	176	176				
Lead	0.0075	0.006	0.015	0.018	0.022	0.014	0.032	0.06	0.124	<0.005	<0.005	0.059	0.076	0.061	0.071	0.1				
Manganese	0.15	<0.1	0.4	0.2	0.3	0.2	0.5	0.7	2	<0.1	<0.1	0.8	0.9	1	0.8	1.1				
Nickel	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.2	0.2	<0.1	<0.1	0.1	0.2	0.2	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

^{b/} Soil Remediation Objective for Construction Workers, most stringent of the Ingestion or Inhalation exposure route

^{c/} Soil Remediation Objective for Residential exposure, most stringent of the Ingestion or Inhalation exposure route

^{d/} Soil Remediation Objective for the Groundwater Component of the Groundwater Ingestion

Route, Class I Groundwater.
Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 Results
 Soils for Reuse or Disposal at CCDD Facilities in MSA Counties + Chgo
 IDOT, District One
 East Avenue, 55th St to Joliet Rd
 Countryside, Illinois
 BDE Sequence No.: 17471B
 PTB: 178-008/HH-1, Work Order No.: 33A

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/}	2673V-48-01	2673V-Dup-12 (2673V-48-01)	2673V-48-01	2673V-50-01	2673V-50-01	2673V-50-01	2673V-50-01	2673V-51-04	2673V-51-04	2673V-51-05	2673V-51-05	2673V-Dup-15 (2673V-51-05)	2673V-51-05	2673V-56-01	2673V-56-01	2673V-56-01	
				(0-4)	(0-4)	(4-7)	(0-5)	(5-10)	(10-13)	(0-5)	(5-10)	(0-5)	(5-10)	(0-5)	(5-10)	(5-10)	(10-13)	(0-5)	(5-10)	(10-13)
				2/19/2020	2/19/2020	2/19/2020	2/19/2020	2/19/2020	2/19/2020	2/20/2020	2/20/2020	2/20/2020	2/20/2020	2/20/2020	2/20/2020	2/20/2020	2/20/2020	2/20/2020	2/20/2020	2/20/2020
Parameter					2673V-48				2673V-50				2673V-51				2673V-56			
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	8.4	8.14	8.58	8.39	8.36	8.46	8.07	8.57	8.72	8.9	8.99	8.85	8.08	8.66	8.81		
VOCs, mg/kg	NO EXCEEDANCES																			
SVOCs, mg/kg																				
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	0.09	<0.09	0.1	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	
Benzo(b)fluoranthene	0.9 / 1.5 / 2.1	170	0.9	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	
Dibenz(a,h)anthracene	0.09 / 0.2 / 0.42	17	0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	
Total Metals, mg/kg																				
Arsenic	11.3 / 13	61	13	6.6	6.1	10.7	9.6	7.9	4.3	7.6	5.2	7.4	7.5	7	4.3	7.6	6.2	7.4		
Beryllium	22	410	160	0.7	0.7	0.6	1.1	0.6	0.7	0.8	<0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6		
Chromium	21	690	230	23.4	23.3	17.4	34.5	23.1	22.5	20.6	19	14	21.7	21.3	20.2	20.5	19.3	18.9		
Cobalt	20	12,000	4700	9.3	13.5	18.6	16.1	12.5	9.8	13.9	10.6	8.7	19.6	14.9	10.7	18.7	14.6	7.5		
Iron	15,000 / 15,900	---	---	24200	25000	25100	37100	26100	23800	26400	20400	18600	23100	22900	20500	23100	21400	20400		
Lead	107	700	400	38.1	11.7	19.1	20.6	11.3	10.9	16	9.8	22.8	13.3	11.6	11.4	15	12.8	11.3		
Manganese	630 / 636	4,100	1600	315	480	350	410	412	359	852	324	431	356	453	318	633	448	268		
Nickel	100	4,100	1600	28.1	36.5	35	49.7	31	30	36.6	27.2	23.7	30	33.1	29.8	38.5	34.5	26.4		
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	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010		
Beryllium	0.004	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		
Chromium	0.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<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	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Iron	5	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.6	<0.1	<0.1	0.6		
Lead	0.0075	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
Manganese	0.15	<0.1	2.3	0.6	<0.1	1.9	2.1	<0.1	0.5	4	3.6	0.7	3.4	<0.1	2.5	0.8				
Nickel	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
SPLP Metals, mg/L	Class I Groundwater ^{d/}																			
Arsenic	0.05	0.013	0.095	0.045	0.077	0.058	0.13	0.011	0.011	0.025	0.045	0.081	0.01	<0.010	0.032	<0.010				
Beryllium	0.004	<0.004	0.01	<0.004	0.01	0.009	0.012	<0.004	<0.004	0.004	<0.004	0.01	<0.004	<0.004	0.004	<0.004				
Chromium	0.1	0.052	0.324	0.081	0.295	0.331	0.398	0.045	0.046	0.098	0.089	0.314	0.09	0.006	0.109	0.032				
Cobalt	1	<0.1	<0.1	<0.1	0.1	0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
Iron	5	51.8	330	99.2	300	320	454	44.9	46.9	105	106	296	77.1	4.5	108	30.3				
Lead	0.0075	0.059	0.119	0.049	0.15	0.138	0.146	0.016	0.021	0.062	0.061	0.148	0.043	<0.005	0.047	0.013				
Manganese	0.15	0.2	1.9	0.4	2.6	3.8	2.4	0.3	0.2	1.3	0.7	1.9	0.6	<0.1	0.7	0.2				
Nickel	0.1	<0.1	0.4	0.2	0.4	0.4	0.4	0.5	<0.1	<0.1	0.1	0.1	0.4	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

^{b/} Soil Remediation Objective for Construction Workers, most stringent of the Ingestion or Inhalation exposure route

^{c/} Soil Remediation Objective for Residential exposure, most stringent of the Ingestion or Inhalation exposure route

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

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 Results
Soils for Reuse or Disposal at CCDD Facilities in MSA Counties + Chgo
IDOT, District One
East Avenue, 55th St to Joliet Rd
Countryside, Illinois
BDE Sequence No.: 17471B
PTB: 178-008/HH-1, Work Order No.: 33A

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/}	2673V-59-01	2673V-59-01	2673V-59-02	2673V-59-02	2673V-59-04	2673V-59-04	2673V-Dup-16 (2673V-59-04)	2673V-59-06	2673V-59-06	2673V-59-08	2673V-59-08	2673V-59-08	2673V-59-08	2673V-Dup-17 (2673V-59-08)	2673V-59-10		
				(0-5)	(5-10)	(0-5)	(5-10)	(0-5)	(5-10)	(5-10)	(5-10)	(0-5)	(5-11)	(0-5)	(5-10)	(10-15)	(15-20)	(15-20)	(15-20)	(0-5)
				2/20/2020	2/20/2020	2/20/2020	2/20/2020	2/20/2020	2/20/2020	2/20/2020	2/20/2020	2/20/2020	2/20/2020	2/20/2020	2/20/2020	2/20/2020	2/20/2020	2/20/2020	2/20/2020	2/20/2020
Parameter				2673V-59																
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	8.68	8.86	8.14	8.9	8.63	8.98	8.59	8.9	8.3	8.37	8.32	7.22	8.13	8.28	8.97		
VOCs, mg/kg	NO EXCEEDANCES																			
SVOCs, mg/kg	NO EXCEEDANCES																			
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	0.09	<0.09	<0.09	0.241	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	0.208		
Benzo(b)fluoranthene	0.9 / 1.5 / 2.1	170	0.9	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33		
Dibenz(a,h)anthracene	0.09 / 0.2 / 0.42	17	0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09		
Total Metals, mg/kg																				
Arsenic	11.3 / 13	61	13	5.2	4.3	4.7	7.4	13	5.5	5.8	4.8	6.1	7.4	3.8	4.4	1.5	2	5.4		
Beryllium	22	410	160	0.7	<0.5	0.7	<0.5	0.6	0.6	0.6	<0.5	0.6	0.7	0.7	0.5	<0.5	<0.5	<0.5		
Chromium	21	690	230	16.1	14.2	17.1	17.7	17.9	18.8	20.6	17.2	18.9	19.6	22.9	19.5	8.9	9.2	15.8		
Cobalt	20	12,000	4700	7	6.6	7.8	9.4	9	7.9	13.7	9.1	11.6	10.2	6.6	9.9	4.6	4.9	6.6		
Iron	15,000 / 15,900	---	---	18100	17300	20500	20000	21000	21100	22000	17800	20900	22100	22400	20900	9230	9870	15600		
Lead	107	700	400	14.8	10.3	9.6	18.2	9.4	18.2	11.3	8.2	10.1	17.1	11	10.2	5.2	4.2	212		
Manganese	630 / 636	4,100	1600	248	226	397	233	424	284	528	319	466	294	152	325	185	181	367		
Nickel	100	4,100	1600	21.6	24.2	25.3	27.3	25.4	28.4	31.2	25.5	32.4	21.2	26	27.8	12.5	13.6	18.7		
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	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010		
Beryllium	0.004			<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		
Chromium	0.1			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<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	<0.1	<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	<0.1	<0.1	<0.1	0.3	0.3	<0.1	<0.1	<0.1		
Lead	0.0075			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.007		
Manganese	0.15			0.6	0.9	<0.1	0.9	<0.1	0.7	1	3.4	2.4	3.9	0.5	1.8	2.1	2.3	0.3		
Nickel	0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<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	<0.010	0.024	<0.010	0.015	0.058	0.017	<0.010	0.02	0.012	<0.010	<0.010	0.015	0.021		
Beryllium	0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.008	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.004	<0.004		
Chromium	0.1			0.073	0.041	0.091	0.079	0.013	0.061	0.261	0.077	0.006	0.103	0.106	<0.005	<0.005	0.148	0.084		
Cobalt	1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Iron	5			63.2	42.8	79.2	78.5	9.5	62.3	242	71	3.7	95.7	94.4	2.3	0.8	134	78.4		
Lead	0.0075			0.035	0.02	0.051	0.035	<0.005	0.024	0.104	0.025	<0.005	0.062	0.048	<0.005	<0.005	0.059	0.298		
Manganese	0.15			0.4	0.3	0.4	0.5	<0.1	0.4	2	0.5	<0.1	0.6	0.5	<0.1	<0.1	2.1	0.6		
Nickel	0.1			<0.1	<0.1	<0.1	0.1	<0.1	<0.1	0.3	<0.1	<0.1	<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

^{b/} Soil Remediation Objective for Construction Workers, most stringent of the Ingestion or Inhalation exposure route

^{c/} Soil Remediation Objective for Residential exposure, most stringent of the Ingestion or Inhalation exposure route

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

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 Results
Soils for Reuse or Disposal at CCDD Facilities in MSA Counties + Chgo
IDOT, District One
East Avenue, 55th St to Joliet Rd
Countryside, Illinois
BDE Sequence No.: 17471B
PTB: 178-008/HH-1, Work Order No.: 33A

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/}	2673V-59-10	2673V-59-10	2673V-59-10	2673V-59-11	2673V-59-11	2673V-59-11	2673V-Dup-18 (2673V-59-11)	2673V-59-12	2673V-59-12	2673V-59-12	2673V-59-13	2673V-59-13	2673V-59-13	2673V-59-13	2673V-59-13
				(5-10)	(10-15)	(15-20)	(0-5)	(5-10)	(10-15)	(10-15)	(0-5)	(5-10)	(10-13)	(0-5)	(5-10)	(10-15)	(15-20)	(20-24)
				2/20/2020	2/20/2020	2/20/2020	2/20/2020	2/20/2020	2/20/2020	2/20/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020
2673V-59																		
Parameter																		
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	8.48	8.83	8.57	8.39	8.28	8.39	8.48	8.09	8.76	7.8	8.99	8.9	8.71	8.4	8.6
VOCs, mg/kg	NO EXCEEDANCES																	
SVOCS, mg/kg																		
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	0.09	<0.09	<0.09	<0.09	0.131	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
Benzo(b)fluoranthene	0.9 / 1.5 / 2.1	170	0.9	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Dibenz(a,h)anthracene	0.09 / 0.2 / 0.42	17	0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
Total Metals, mg/kg																		
Arsenic	11.3 / 13	61	13	3.6	5.5	3	4.7	6.5	6.4	3.8	5.5	6.1	8.5	5.9	6.6	5.3	6.7	5.1
Beryllium	22	410	160	<0.5	<0.5	<0.5	<0.5	0.8	<0.5	<0.5	<0.5	0.7	0.6	0.6	0.9	0.6	<0.5	0.6
Chromium	21	690	230	11.6	14	7.2	16.1	20.6	16	12.9	18.9	23.5	15.7	22	25.6	22	20.2	22.9
Cobalt	20	12,000	4700	6.4	9.2	7.1	6.2	11.4	11.9	7.3	11.3	13.2	13.1	13.3	10.7	13.6	12.3	11.6
Iron	15,000 / 15,900	---	---	13200	20100	8430	18600	22800	18400	15800	20300	25000	22100	23000	27200	22300	22100	24400
Lead	107	700	400	8.1	17.4	4.6	76.4	12.9	40.9	8.2	33.9	13	19.7	11.6	23.8	15.5	12.6	14.3
Manganese	630 / 636	4,100	1600	256	400	158	357	547	331	241	365	469	349	593	433	396	432	397
Nickel	100	4,100	1600	18	28.2	17.3	19.1	29.9	30.4	21.2	28.1	36.6	33.3	39.3	29.5	34.6	31	32
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	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Beryllium	0.004	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chromium	0.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<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	<0.1	<0.1	<0.1	<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	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	<0.1	<0.1
Lead	0.0075	<0.005	<0.005	<0.005	0.041	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.009	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese	0.15	1.7	2.4	2.3	0.6	5.6	2	2.1	0.5	0.3	5.8	0.4	0.5	2	1.2	0.4		
Nickel	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<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	<0.010	0.025	<0.010	<0.010	0.01	0.061	0.083	0.01	0.061	0.024	<0.010	0.015	0.014		
Beryllium	0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.007	0.014	<0.004	0.007	0.006	<0.004	<0.004	<0.004	<0.004
Chromium	0.1	0.011	0.014	<0.005	0.102	0.057	0.008	0.113	0.193	0.393	0.028	0.209	0.195	0.063	0.116	0.118		
Cobalt	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Iron	5	6.7	12.4	0.6	75.6	51.4	5.4	109	188	342	31.3	192	200	58.8	106	99.6		
Lead	0.0075	0.007	0.01	<0.005	0.558	0.028	<0.005	0.055	0.154	0.144	0.019	0.079	0.082	0.029	0.042	0.048		
Manganese	0.15	<0.1	<0.1	<0.1	0.6	0.6	<0.1	1.4	1	2.4	0.4	1.3	1	0.3	1	0.8		
Nickel	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.2	0.4	<0.1	0.2	0.2	<0.1	0.1	0.1	

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^{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

^{b/} Soil Remediation Objective for Construction Workers, most stringent of the Ingestion or Inhalation exposure route

^{c/} Soil Remediation Objective for Residential exposure, most stringent of the Ingestion or Inhalation exposure route

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

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 Results
Soils for Reuse or Disposal at CCDD Facilities in MSA Counties + Chgo
IDOT, District One
East Avenue, 55th St to Joliet Rd
Countryside, Illinois
BDE Sequence No.: 17471B
PTB: 178-008/HH-1, Work Order No.: 33A

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/}	2673V-59-14	2673V-59-14	2673V-59-14	2673V-59-16	2673V-59-16	2673V-59-17	2673V-59-17	2673V-59-17	2673V-59-18	2673V-59-18	2673V-59-20	2673V-Dup-03 (2673V-59-20)	2673V-59-20	2673V-59-22	2673V-Dup-04 (2673V-59-22)		
				(0-5)	(5-10)	(10-13)	(0-5)	(5-10)	(0-5)	(5-10)	(10-13)	(0-5)	(5-10)	(0-5)	(5-10)	(0-5)	(0-5)	(5-10)	(0-5)	(0-5)
				2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/24/2020	2/24/2020	2/24/2020	2/24/2020
				2673V-59																
Parameter																				
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	8.35	8.38	8.59	7.9	8.5	8.39	7.74	7.97	8.24	8.63	8.85	8.87	8.57	8.79	8.75		
VOCs, mg/kg	NO EXCEEDANCES																			
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	<0.09	0.845	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09		
Benzo(b)fluoranthene	0.9 / 1.5 / 2.1	170	0.9	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.792	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33		
Dibenz(a,h)anthracene	0.09 / 0.2 / 0.42	17	0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	0.1	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09		
Total Metals, mg/kg																				
Arsenic	11.3 / 13	61	13	7.7	6.6	3.3	7.8	5.4	4.5	4.1	6.5	2.4	4.8	7.4	8.7	9.3	11	12.7		
Beryllium	22	410	160	0.6	0.5	0.6	0.6	0.5	0.6	0.5	0.5	<0.5	<0.5	<0.5	<0.5	0.5	0.7	0.6		
Chromium	21	690	230	22.1	22.1	23.6	23.9	18	21.1	19.8	19.3	30.3	16.4	14.6	10	17.8	19.7	16.9		
Cobalt	20	12,000	4700	13.7	20.4	11.6	11.9	20.8	7.7	10.7	8.8	7.4	9.4	8.8	6.9	8.1	7	16.3		
Iron	15,000 / 15,900	---	---	25500	25100	23200	26000	20300	21000	21000	24000	15100	18200	20200	18800	23500	27700	29200		
Lead	107	700	400	21	15.3	10.4	14.7	19.4	9.6	10.6	17.4	178	11.1	19.9	13.6	15.9	16.5	24		
Manganese	630 / 636	4,100	1600	452	520	443	390	616	252	365	249	284	333	293	280	275	264	467		
Nickel	100	4,100	1600	31.3	41.6	32	34.7	37.4	25.3	30.8	30.9	17.8	26.1	24.7	23.3	28.7	24.7	50.5		
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	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010		
Beryllium	0.004			<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		
Chromium	0.1			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<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	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Iron	5			<0.1	0.3	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	0.6	<0.1	<0.1		
Lead	0.0075			<0.005	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.007	<0.005	<0.005	<0.005	<0.005	<0.005		
Manganese	0.15			2.1	10.5	5.8	2.7	0.4	0.5	0.9	0.9	0.9	3.9	5.3	4.3	5	0.2	0.2		
Nickel	0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<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			0.054	<0.010	<0.010	0.01	<0.010	0.097	<0.010	<0.010	0.03	<0.010	0.042	0.037	0.035	0.033	0.063		
Beryllium	0.004			0.006	<0.004	<0.004	<0.004	<0.004	0.009	<0.004	<0.004	<0.004	<0.004	0.004	0.005	0.004	<0.004	0.005		
Chromium	0.1			0.196	0.021	0.036	0.049	0.008	0.27	0.045	<0.005	0.072	0.016	0.146	0.216	0.138	0.102	0.114		
Cobalt	1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Iron	5			207	18.7	29	50.2	7.5	301	47.6	0.5	77.1	14.3	143	206	137	118	154		
Lead	0.0075			0.1	0.007	0.013	0.014	<0.005	0.12	0.017	<0.005	0.469	0.013	0.164	0.079	0.089	0.04	0.081		
Manganese	0.15			0.9	0.3	0.3	0.3	<0.1	1.8	0.3	<0.1	0.5	<0.1	1.5	1.8	1.3	0.5	0.6		
Nickel	0.1			0.2	<0.1	<0.1	<0.1	<0.1	0.3	<0.1	<0.1	<0.1	<0.1	0.2	0.2	0.2	0.1	0.2		

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^{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

^{b/} Soil Remediation Objective for Construction Workers, most stringent of the Ingestion or Inhalation exposure route

^{c/} Soil Remediation Objective for Residential exposure, most stringent of the Ingestion or Inhalation exposure route

^{d/} Soil Remediation Objective for the Groundwater Component of the Groundwater Ingestion

Route, Class I Groundwater.
Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 Results
 Soils for Reuse or Disposal at CCDD Facilities in MSA Counties + Chgo
 IDOT, District One
 East Avenue, 55th St to Joliet Rd
 Countryside, Illinois
 BDE Sequence No.: 17471B
 PTB: 178-008/HH-1, Work Order No.: 33A

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/}	2673V-59-22	2673V-59-23	2673V-59-23	2673V-Dup-05 (2673V-59-23)	2673V-59-24	2673V-Dup-06 (2673V-59-24)	2673V-59-24	2673V-59-24	2673V-59-25	2673V-59-25	2673V-59-28	2673V-Dup-07 (2673V-59-28)	2673V-59-30	2673V-59-30
				(5-10) 2/24/2020	(0-5) 2/24/2020	(5-10) 2/24/2020	(5-10) 2/24/2020	(0-5) 2/24/2020	(0-5) 2/24/2020	(5-10) 2/24/2020	(10-13) 2/24/2020	(0-5) 2/24/2020	(5-10) 2/24/2020	(0-5) 2/24/2020	(0-5) 2/24/2020	(0-5) 2/24/2020	(0-5) 2/24/2020
Parameter	2673V-59																
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	8.12	8.22	8.3	8.66	8.52	8.69	8.5	8.01	8.97	8.94	8.44	7.5	8.94	8.82
VOCS, mg/kg	NO EXCEEDANCES																
SVOCs, mg/kg	NO EXCEEDANCES																
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	0.09	<0.09	0.296	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	0.529	<0.09	0.391
Benzo(b)fluoranthene	0.9 / 1.5 / 2.1	170	0.9	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.414	<0.33	0.402
Dibenz(a,h)anthracene	0.09 / 0.2 / 0.42	17	0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
Total Metals, mg/kg																	
Arsenic	11.3 / 13	61	13	4.6	6.6	9.9	7.9	7.2	5.8	5.1	3.4	7.2	3.1	11.7	8.8	6.3	3.4
Beryllium	22	410	160	0.7	<0.5	0.8	0.6	0.6	<0.5	<0.5	<0.5	0.6	<0.5	1	0.7	0.6	<0.5
Chromium	21	690	230	20	14.6	24.7	19.8	19.5	17.1	16.8	7.5	21.3	8.4	28.6	21.8	16.5	9.9
Cobalt	20	12,000	4700	9	9.1	10.5	12.5	13.7	10.6	20.2	5.3	13.2	11.5	12.5	9.9	7.9	4.1
Iron	15,000 / 15,900	---	---	22200	20900	32100	23600	23900	20600	20100	11400	25300	11000	30400	23700	21400	9130
Lead	107	700	400	31	17.6	13.3	12.6	13.3	8.5	11.4	23.8	33.2	29.6	25.8	199	64.6	28.7
Manganese	630 / 636	4,100	1600	405	337	356	439	342	409	565	317	605	479	186	480	364	339
Nickel	100	4,100	1600	26.9	27.7	30.2	34.4	27.7	28.8	34.7	11.6	37.4	18.3	35.2	20.7	23.4	8.9
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	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Beryllium	0.004			<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chromium	0.1			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<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	<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	<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	0.007	<0.005	<0.005	<0.005	<0.005	0.016	<0.005	<0.005	<0.005
Manganese	0.15			0.4	0.2	<0.1	0.3	2.5	6.5	2.3	0.5	0.4	0.7	4.1	<0.1	0.2	0.7
Nickel	0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<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	0.028	0.032	0.022	0.036	0.057	<0.010	<0.010	0.044	0.014	0.031	0.021	0.032	<0.010
Beryllium	0.004			0.005	<0.004	0.006	<0.004	<0.004	0.004	<0.004	<0.004	0.004	<0.004	0.006	<0.004	<0.004	<0.004
Chromium	0.1			0.162	0.054	0.195	0.11	0.151	0.122	0.03	0.031	0.121	0.064	0.174	0.089	0.098	0.016
Cobalt	1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Iron	5			149	74.4	192	105	154	144	28.4	37.5	134	63.7	154	82.3	126	14.2
Lead	0.0075			0.121	0.06	0.054	0.028	0.06	0.063	0.009	0.031	0.088	0.107	0.129	0.099	0.132	0.029
Manganese	0.15			0.9	0.2	1.5	0.5	1	0.8	0.1	0.2	0.6	0.4	0.8	0.7	0.7	0.2
Nickel	0.1			0.2	<0.1	0.2	0.1	0.2	0.2	<0.1	<0.1	0.1	<0.1	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

^{b/} Soil Remediation Objective for Construction Workers, most stringent of the Ingestion or Inhalation exposure route

^{c/} Soil Remediation Objective for Residential exposure, most stringent of the Ingestion or Inhalation exposure route

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

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration



February 27, 2020

Ms. Jill Connolly
HUFF & HUFF INC.
915 Harger Road
Suite 330
Oak Brook, IL 60523

Project ID: IDOT WO# 33 East Ave 81.0220509.67
First Environmental File ID: 20-0942
Date Received: February 20, 2020

Dear Ms. Jill Connolly:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 004324: effective 04/23/2019 through 02/28/2020.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Ryan Gerrick
Project Manager



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 13:20

Sample ID: 2673V-17-06 (0-5)

Date Received: 02/20/20

Sample No: 20-0942-005

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/21/20				
Total Solids	82.21		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/25/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 13:20

Sample ID: 2673V-17-06 (0-5)

Date Received: 02/20/20

Sample No: 20-0942-005

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/25/20				
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: 02/24/20				
Preparation Date: 02/23/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 13:20

Sample ID: 2673V-17-06 (0-5)

Date Received: 02/20/20

Sample No: 20-0942-005

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/24/20		Preparation Date: 02/23/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 East Ave 81.0220509.67
Sample ID: 2673V-17-06 (0-5)
Sample No: 20-0942-005

Date Collected: 02/19/20
Time Collected: 13:20
Date Received: 02/20/20
Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/24/20				Preparation Date: 02/23/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/24/20				Preparation Date: 02/21/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	11.3	1.0	mg/kg	
Barium	116	0.5	mg/kg	
Beryllium	0.9	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,980	50	mg/kg	
Chromium	28.6	0.5	mg/kg	
Cobalt	14.6	0.5	mg/kg	
Copper	46.7	0.5	mg/kg	
Iron	35,900	5.0	mg/kg	
Lead	16.6	0.5	mg/kg	
Magnesium	6,850	50	mg/kg	
Manganese	391	0.5	mg/kg	
Nickel	48.8	0.5	mg/kg	
Potassium	2,050	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.7	0.2	mg/kg	
Sodium	708	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 13:20

Sample ID: 2673V-17-06 (0-5)

Date Received: 02/20/20

Sample No: 20-0942-005

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/24/20		Method: 6010C		Preparation Method 3050B Preparation Date: 02/21/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	35.5	1.0	mg/kg	
Zinc	66.1	1.0	mg/kg	
Total Mercury Analysis Date: 02/21/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/21/20		Method: 9045D 2004		
pH @ 25°C, 1:2	8.55		Units	
TCLP Extraction Analysis Date: 02/24/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/26/20		Method: 6010C		Preparation Method 3010A Preparation Date: 02/25/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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 Analysis Date: 02/26/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/19/20
Project ID:	IDOT WO# 33 East Ave 81.0220509.67	Time Collected:	13:20
Sample ID:	2673V-17-06 (0-5)	Date Received:	02/20/20
Sample No:	20-0942-005	Date Reported:	02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/20/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/24/20		Preparation Date: 02/21/20		
Arsenic	0.113	0.010	mg/L	
Barium	1.3	1.0	mg/L	
Beryllium	0.010	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.294	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.466	0.005	mg/L	
Iron	346	0.1	mg/L	
Lead	0.108	0.005	mg/L	
Manganese	1.5	0.1	mg/L	
Nickel	0.4	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	0.007	0.005	mg/L	
Zinc	0.6	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/24/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 13:20

Sample ID: 2673V-17-06 (0-5)

Date Received: 02/20/20

Sample No: 20-0942-005

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 93.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 99.4	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 93.5	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 85.5	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 68.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 58.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 84.2	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 77.8	35 - 105	
8270C	Phenol-d5 (surr)	%R: 65.4	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 13:25

Sample ID: 2673V-17-06 (5-10)

Date Received: 02/20/20

Sample No: 20-0942-006

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/21/20				
Total Solids	81.79		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/25/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 13:25

Sample ID: 2673V-17-06 (5-10)

Date Received: 02/20/20

Sample No: 20-0942-006

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/25/20				
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: 02/24/20				
Preparation Date: 02/23/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 East Ave 81.0220509.67
Sample ID: 2673V-17-06 (5-10)
Sample No: 20-0942-006

Date Collected: 02/19/20
Time Collected: 13:25
Date Received: 02/20/20
Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/24/20		Preparation Date: 02/23/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 13:25

Sample ID: 2673V-17-06 (5-10)

Date Received: 02/20/20

Sample No: 20-0942-006

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/24/20				Preparation Date: 02/23/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/24/20				Preparation Date: 02/21/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.0	1.0	mg/kg	
Barium	46.0	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	52,300	50	mg/kg	
Chromium	21.1	0.5	mg/kg	
Cobalt	9.3	0.5	mg/kg	
Copper	23.0	0.5	mg/kg	
Iron	25,400	5.0	mg/kg	
Lead	11.4	0.5	mg/kg	
Magnesium	26,600	50	mg/kg	
Manganese	305	0.5	mg/kg	
Nickel	27.5	0.5	mg/kg	
Potassium	2,700	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	789	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 13:25

Sample ID: 2673V-17-06 (5-10)

Date Received: 02/20/20

Sample No: 20-0942-006

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		
Analysis Date: 02/24/20		Preparation Method 3050B		
		Preparation Date: 02/21/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	25.9	1.0	mg/kg	
Zinc	48.6	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/21/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/21/20				
pH @ 25°C, 1:2	8.99		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/24/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/26/20				Preparation Date: 02/25/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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: 02/26/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.	Date Collected: 02/19/20
Project ID: IDOT WO# 33 East Ave 81.0220509.67	Time Collected: 13:25
Sample ID: 2673V-17-06 (5-10)	Date Received: 02/20/20
Sample No: 20-0942-006	Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/20/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/24/20		Preparation Date: 02/21/20		
Arsenic	0.062	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.007	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.219	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.237	0.005	mg/L	
Iron	227	0.1	mg/L	
Lead	0.103	0.005	mg/L	
Manganese	1.5	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	0.5	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/24/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 13:25

Sample ID: 2673V-17-06 (5-10)

Date Received: 02/20/20

Sample No: 20-0942-006

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 97	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 101.7	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 99.9	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 82.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 64.2	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 57.4	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 82.3	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 73.4	35 - 105	
8270C	Phenol-d5 (surr)	%R: 63	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 10:45

Sample ID: 2673V-48-01 (0-4)

Date Received: 02/20/20

Sample No: 20-0942-009

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/21/20				
Total Solids	80.16		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/25/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 10:45

Sample ID: 2673V-48-01 (0-4)

Date Received: 02/20/20

Sample No: 20-0942-009

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/25/20				
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: 02/24/20				
Preparation Date: 02/23/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 10:45

Sample ID: 2673V-48-01 (0-4)

Date Received: 02/20/20

Sample No: 20-0942-009

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/24/20		Preparation Date: 02/23/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 10:45

Sample ID: 2673V-48-01 (0-4)

Date Received: 02/20/20

Sample No: 20-0942-009

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/24/20				Preparation Date: 02/23/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/24/20				Preparation Date: 02/21/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.6	1.0	mg/kg	
Barium	83.4	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	49,800	50	mg/kg	
Chromium	23.4	0.5	mg/kg	
Cobalt	9.3	0.5	mg/kg	
Copper	30.7	0.5	mg/kg	
Iron	24,200	5.0	mg/kg	
Lead	38.1	0.5	mg/kg	
Magnesium	21,300	50	mg/kg	
Manganese	315	0.5	mg/kg	
Nickel	28.1	0.5	mg/kg	
Potassium	2,210	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	1,390	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 10:45

Sample ID: 2673V-48-01 (0-4)

Date Received: 02/20/20

Sample No: 20-0942-009

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/24/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/21/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	29.2	1.0	mg/kg	
Zinc	75.7	1.0	mg/kg	
Total Mercury Analysis Date: 02/21/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/21/20	Method: 9045D 2004			
pH @ 25°C, 1:2	8.40		Units	
TCLP Extraction Analysis Date: 02/24/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/26/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/25/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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 Analysis Date: 02/26/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 10:45

Sample ID: 2673V-48-01 (0-4)

Date Received: 02/20/20

Sample No: 20-0942-009

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/20/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/24/20		Preparation Date: 02/21/20		
Arsenic	0.013	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.052	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.054	0.005	mg/L	
Iron	51.8	0.1	mg/L	
Lead	0.059	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: 02/24/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 East Ave 81.0220509.67
Sample ID: 2673V-48-01 (0-4)
Sample No: 20-0942-009

Date Collected: 02/19/20
Time Collected: 10:45
Date Received: 02/20/20
Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 92.9	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 99.6	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 93	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 84.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 65.2	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 53.2	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 81.5	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 73.6	35 - 105	
8270C	Phenol-d5 (surr)	%R: 62.2	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 9:00

Sample ID: 2673V-DUP-12

Date Received: 02/20/20

Sample No: 20-0942-019

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/21/20				
Total Solids	80.69		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 9:00

Sample ID: 2673V-DUP-12

Date Received: 02/20/20

Sample No: 20-0942-019

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
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: 02/25/20				
Preparation Date: 02/24/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	100	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 East Ave 81.0220509.67
Sample ID: 2673V-DUP-12
Sample No: 20-0942-019

Date Collected: 02/19/20
Time Collected: 9:00
Date Received: 02/20/20
Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/25/20		Preparation Date: 02/24/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 9:00

Sample ID: 2673V-DUP-12

Date Received: 02/20/20

Sample No: 20-0942-019

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/25/20				Preparation Date: 02/24/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/24/20				Preparation Date: 02/21/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.1	1.0	mg/kg	
Barium	59.3	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	50,000	50	mg/kg	
Chromium	23.3	0.5	mg/kg	
Cobalt	13.5	0.5	mg/kg	
Copper	23.9	0.5	mg/kg	
Iron	25,000	5.0	mg/kg	
Lead	11.7	0.5	mg/kg	
Magnesium	24,000	50	mg/kg	
Manganese	480	0.5	mg/kg	
Nickel	36.5	0.5	mg/kg	
Potassium	2,640	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	1,100	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 9:00

Sample ID: 2673V-DUP-12

Date Received: 02/20/20

Sample No: 20-0942-019

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/24/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/21/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	28.0	1.0	mg/kg	
Zinc	50.9	1.0	mg/kg	
Total Mercury Analysis Date: 02/21/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/24/20	Method: 9045D 2004			
pH @ 25°C, 1:2	8.14		Units	
TCLP Extraction Analysis Date: 02/24/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/26/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/25/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	2.3	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 Analysis Date: 02/26/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 9:00

Sample ID: 2673V-DUP-12

Date Received: 02/20/20

Sample No: 20-0942-019

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/20/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/24/20		Preparation Date: 02/21/20		
Arsenic	0.095	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.010	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.324	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.328	0.005	mg/L	
Iron	330	0.1	mg/L	
Lead	0.119	0.005	mg/L	
Manganese	1.9	0.1	mg/L	
Nickel	0.4	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	0.008	0.005	mg/L	
Zinc	0.6	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/24/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 East Ave 81.0220509.67
Sample ID: 2673V-DUP-12
Sample No: 20-0942-019

Date Collected: 02/19/20
Time Collected: 9:00
Date Received: 02/20/20
Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 95.3	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 100.5	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 101.5	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 95	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 64.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 59.3	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 82.7	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 75.4	35 - 105	
8270C	Phenol-d5 (surr)	%R: 69.8	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 10:50

Sample ID: 2673V-48-01 (4-7)

Date Received: 02/20/20

Sample No: 20-0942-010

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/21/20				
Total Solids	82.92		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/25/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 10:50

Sample ID: 2673V-48-01 (4-7)

Date Received: 02/20/20

Sample No: 20-0942-010

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/25/20				
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: 02/24/20				
Preparation Date: 02/23/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 East Ave 81.0220509.67
Sample ID: 2673V-48-01 (4-7)
Sample No: 20-0942-010

Date Collected: 02/19/20
Time Collected: 10:50
Date Received: 02/20/20
Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/24/20		Preparation Date: 02/23/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 10:50

Sample ID: 2673V-48-01 (4-7)

Date Received: 02/20/20

Sample No: 20-0942-010

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/24/20				Preparation Date: 02/23/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/24/20				Preparation Date: 02/21/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	10.7	1.0	mg/kg	
Barium	31.8	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	34,300	50	mg/kg	
Chromium	17.4	0.5	mg/kg	
Cobalt	18.6	0.5	mg/kg	
Copper	41.1	0.5	mg/kg	
Iron	25,100	5.0	mg/kg	
Lead	19.1	0.5	mg/kg	
Magnesium	21,600	50	mg/kg	
Manganese	350	0.5	mg/kg	
Nickel	35.0	0.5	mg/kg	
Potassium	2,170	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	735	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 10:50

Sample ID: 2673V-48-01 (4-7)

Date Received: 02/20/20

Sample No: 20-0942-010

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/24/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/21/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	21.4	1.0	mg/kg	
Zinc	58.4	1.0	mg/kg	
Total Mercury Analysis Date: 02/21/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/21/20	Method: 9045D 2004			
pH @ 25°C, 1:2	8.58		Units	
TCLP Extraction Analysis Date: 02/24/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/26/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/25/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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 Analysis Date: 02/26/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/19/20
Project ID:	IDOT WO# 33 East Ave 81.0220509.67	Time Collected:	10:50
Sample ID:	2673V-48-01 (4-7)	Date Received:	02/20/20
Sample No:	20-0942-010	Date Reported:	02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/20/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/24/20		Preparation Date: 02/21/20		
Arsenic	0.045	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.081	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.150	0.005	mg/L	
Iron	99.2	0.1	mg/L	
Lead	0.049	0.005	mg/L	
Manganese	0.4	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: 02/24/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 East Ave 81.0220509.67
Sample ID: 2673V-48-01 (4-7)
Sample No: 20-0942-010

Date Collected: 02/19/20
Time Collected: 10:50
Date Received: 02/20/20
Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 94.1	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 100.4	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 98.3	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 86.9	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 64.8	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 58.4	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 79.2	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 75.1	35 - 105	
8270C	Phenol-d5 (surr)	%R: 64.1	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 11:10

Sample ID: 2673V-50-01 (0-5)

Date Received: 02/20/20

Sample No: 20-0942-016

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/21/20				
Total Solids	77.86		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/25/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 11:10

Sample ID: 2673V-50-01 (0-5)

Date Received: 02/20/20

Sample No: 20-0942-016

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/25/20				
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: 02/24/20				
Preparation Date: 02/23/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 East Ave 81.0220509.67
Sample ID: 2673V-50-01 (0-5)
Sample No: 20-0942-016

Date Collected: 02/19/20
Time Collected: 11:10
Date Received: 02/20/20
Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/24/20		Preparation Date: 02/23/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 East Ave 81.0220509.67
Sample ID: 2673V-50-01 (0-5)
Sample No: 20-0942-016

Date Collected: 02/19/20
Time Collected: 11:10
Date Received: 02/20/20
Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/24/20				Preparation Date: 02/23/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/24/20				Preparation Date: 02/21/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	9.6	1.0	mg/kg	
Barium	158	0.5	mg/kg	
Beryllium	1.1	0.5	mg/kg	
Cadmium	0.5	0.5	mg/kg	
Calcium	8,930	50	mg/kg	
Chromium	34.5	0.5	mg/kg	
Cobalt	16.1	0.5	mg/kg	
Copper	33.3	0.5	mg/kg	
Iron	37,100	5.0	mg/kg	
Lead	20.6	0.5	mg/kg	
Magnesium	9,660	50	mg/kg	
Manganese	410	0.5	mg/kg	
Nickel	49.7	0.5	mg/kg	
Potassium	2,420	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.7	0.2	mg/kg	
Sodium	807	50	mg/kg	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/19/20
Project ID:	IDOT WO# 33 East Ave 81.0220509.67	Time Collected:	11:10
Sample ID:	2673V-50-01 (0-5)	Date Received:	02/20/20
Sample No:	20-0942-016	Date Reported:	02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals				
Method: 6010C		Preparation Method 3050B		
Analysis Date: 02/24/20		Preparation Date: 02/21/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	40.6	1.0	mg/kg	
Zinc	61.4	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 02/21/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 02/24/20				
pH @ 25°C, 1:2	8.39		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 02/24/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311				
Method: 6010C		Preparation Method 3010A		
Analysis Date: 02/26/20		Preparation Date: 02/25/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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: 02/26/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 11:10

Sample ID: 2673V-50-01 (0-5)

Date Received: 02/20/20

Sample No: 20-0942-016

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/20/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/24/20		Preparation Date: 02/21/20		
Arsenic	0.077	0.010	mg/L	
Barium	1.3	1.0	mg/L	
Beryllium	0.010	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.295	0.005	mg/L	
Cobalt	0.1	0.1	mg/L	
Copper	0.289	0.005	mg/L	
Iron	300	0.1	mg/L	
Lead	0.150	0.005	mg/L	
Manganese	2.6	0.1	mg/L	
Nickel	0.4	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	0.007	0.005	mg/L	
Zinc	0.5	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/24/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 East Ave 81.0220509.67
Sample ID: 2673V-50-01 (0-5)
Sample No: 20-0942-016

Date Collected: 02/19/20
Time Collected: 11:10
Date Received: 02/20/20
Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 95.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 100.8	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 97.4	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 82.2	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 62.2	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 58.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 85.2	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 74.1	35 - 105	
8270C	Phenol-d5 (surr)	%R: 64.5	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 11:11

Sample ID: 2673V-50-01 (5-10)

Date Received: 02/20/20

Sample No: 20-0942-017

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/21/20				
Total Solids	81.00		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/25/20				
Acetone	< 200	200	ug/kg	
Benzene	5.9	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	6.6	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	15.3	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 11:11

Sample ID: 2673V-50-01 (5-10)

Date Received: 02/20/20

Sample No: 20-0942-017

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/25/20				
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	38.1	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/25/20				
Preparation Date: 02/24/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 11:11

Sample ID: 2673V-50-01 (5-10)

Date Received: 02/20/20

Sample No: 20-0942-017

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/25/20		Preparation Date: 02/24/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 11:11

Sample ID: 2673V-50-01 (5-10)

Date Received: 02/20/20

Sample No: 20-0942-017

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/25/20				Preparation Date: 02/24/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/24/20				Preparation Date: 02/21/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.9	1.0	mg/kg	
Barium	52.8	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	53,500	50	mg/kg	
Chromium	23.1	0.5	mg/kg	
Cobalt	12.5	0.5	mg/kg	
Copper	28.0	0.5	mg/kg	
Iron	26,100	5.0	mg/kg	
Lead	11.3	0.5	mg/kg	
Magnesium	25,000	50	mg/kg	
Manganese	412	0.5	mg/kg	
Nickel	31.0	0.5	mg/kg	
Potassium	3,020	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	535	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 East Ave 81.0220509.67
Sample ID: 2673V-50-01 (5-10)
Sample No: 20-0942-017

Date Collected: 02/19/20
Time Collected: 11:11
Date Received: 02/20/20
Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Preparation Method 3050B				
Analysis Date: 02/24/20 Preparation Date: 02/21/20				
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	27.0	1.0	mg/kg	
Zinc	48.1	1.0	mg/kg	
Total Mercury Method: 7471B				
Analysis Date: 02/21/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 02/24/20				
pH @ 25°C, 1:2	8.36		Units	
TCLP Extraction Method: 1311				
Analysis Date: 02/24/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 02/26/20 Preparation Date: 02/25/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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: 02/26/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/19/20
Project ID:	IDOT WO# 33 East Ave 81.0220509.67	Time Collected:	11:11
Sample ID:	2673V-50-01 (5-10)	Date Received:	02/20/20
Sample No:	20-0942-017	Date Reported:	02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/20/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/24/20		Preparation Date: 02/21/20		
Arsenic	0.058	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.009	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.331	0.005	mg/L	
Cobalt	0.1	0.1	mg/L	
Copper	0.352	0.005	mg/L	
Iron	320	0.1	mg/L	
Lead	0.138	0.005	mg/L	
Manganese	3.8	0.1	mg/L	
Nickel	0.4	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	0.007	0.005	mg/L	
Zinc	0.7	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/24/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 East Ave 81.0220509.67
Sample ID: 2673V-50-01 (5-10)
Sample No: 20-0942-017

Date Collected: 02/19/20
Time Collected: 11:11
Date Received: 02/20/20
Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 114.2	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 100.6	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 95	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 91.1	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 58.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 59.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 81	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 69.2	35 - 105	
8270C	Phenol-d5 (surr)	%R: 70.5	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 11:15

Sample ID: 2673V-50-01 (10-13)

Date Received: 02/20/20

Sample No: 20-0942-018

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/21/20				
Total Solids	82.43		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 East Ave 81.0220509.67
Sample ID: 2673V-50-01 (10-13)
Sample No: 20-0942-018

Date Collected: 02/19/20
Time Collected: 11:15
Date Received: 02/20/20
Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
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: 02/25/20				
Preparation Date: 02/24/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 East Ave 81.0220509.67
Sample ID: 2673V-50-01 (10-13)
Sample No: 20-0942-018

Date Collected: 02/19/20
Time Collected: 11:15
Date Received: 02/20/20
Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/25/20		Preparation Date: 02/24/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 East Ave 81.0220509.67
Sample ID: 2673V-50-01 (10-13)
Sample No: 20-0942-018

Date Collected: 02/19/20
Time Collected: 11:15
Date Received: 02/20/20
Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/25/20		Preparation Date: 02/24/20		
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/24/20		Preparation Date: 02/21/20		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.3	1.0	mg/kg	
Barium	54.9	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	50,300	50	mg/kg	
Chromium	22.5	0.5	mg/kg	
Cobalt	9.8	0.5	mg/kg	
Copper	24.3	0.5	mg/kg	
Iron	23,800	5.0	mg/kg	
Lead	10.9	0.5	mg/kg	
Magnesium	25,000	50	mg/kg	
Manganese	359	0.5	mg/kg	
Nickel	30.0	0.5	mg/kg	
Potassium	2,930	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	287	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/19/20

Project ID: IDOT WO# 33 East Ave 81.0220509.67

Time Collected: 11:15

Sample ID: 2673V-50-01 (10-13)

Date Received: 02/20/20

Sample No: 20-0942-018

Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/24/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/21/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	27.4	1.0	mg/kg	
Zinc	52.0	1.0	mg/kg	
Total Mercury Analysis Date: 02/21/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/24/20	Method: 9045D 2004			
pH @ 25°C, 1:2	8.46		Units	
TCLP Extraction Analysis Date: 02/24/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/26/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/25/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	0.006	0.005	mg/L	
Manganese	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 Analysis Date: 02/26/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/19/20
Project ID:	IDOT WO# 33 East Ave 81.0220509.67	Time Collected:	11:15
Sample ID:	2673V-50-01 (10-13)	Date Received:	02/20/20
Sample No:	20-0942-018	Date Reported:	02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/20/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/24/20		Preparation Date: 02/21/20		
Arsenic	0.130	0.010	mg/L	
Barium	1.1	1.0	mg/L	
Beryllium	0.012	0.004	mg/L	
Cadmium	0.005	0.005	mg/L	
Chromium	0.398	0.005	mg/L	
Cobalt	0.1	0.1	mg/L	
Copper	0.437	0.005	mg/L	
Iron	454	0.1	mg/L	
Lead	0.146	0.005	mg/L	
Manganese	2.4	0.1	mg/L	
Nickel	0.5	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	0.010	0.005	mg/L	
Zinc	0.8	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/24/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 East Ave 81.0220509.67
Sample ID: 2673V-50-01 (10-13)
Sample No: 20-0942-018

Date Collected: 02/19/20
Time Collected: 11:15
Date Received: 02/20/20
Date Reported: 02/27/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 92.4	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 99.5	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 91.7	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 99.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 67	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 64	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 87.8	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 85.9	35 - 105	
8270C	Phenol-d5 (surr)	%R: 74	50 - 100	



March 02, 2020

Ms. Jill Connolly
HUFF & HUFF INC.
915 Harger Road
Suite 330
Oak Brook, IL 60523

Project ID: IDOT WO33 East Ave 81.0220509.67
First Environmental File ID: 20-0971
Date Received: February 21, 2020

Dear Ms. Jill Connolly:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 004324: effective 04/23/2019 through 02/28/2020.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Ryan Gerrick
Project Manager



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-51-04 (0-5)
Sample No: 20-0971-008

Date Collected: 02/20/20
Time Collected: 11:15
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/24/20				
Total Solids	80.92		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO33 East Ave 81.0220509.67
Sample ID: 2673V-51-04 (0-5)
Sample No: 20-0971-008

Date Collected: 02/20/20
Time Collected: 11:15
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
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: 02/25/20				
Preparation Date: 02/24/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-51-04 (0-5)
Sample No: 20-0971-008

Date Collected: 02/20/20
Time Collected: 11:15
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/25/20		Preparation Date: 02/24/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-51-04 (0-5)
Sample No: 20-0971-008

Date Collected: 02/20/20
Time Collected: 11:15
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/25/20		Preparation Date: 02/24/20		
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/25/20		Preparation Date: 02/24/20		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.6	1.0	mg/kg	
Barium	98.4	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,030	50	mg/kg	
Chromium	20.6	0.5	mg/kg	
Cobalt	13.9	0.5	mg/kg	
Copper	31.4	0.5	mg/kg	
Iron	26,400	5.0	mg/kg	
Lead	16.0	0.5	mg/kg	
Magnesium	4,140	50	mg/kg	
Manganese	852	0.5	mg/kg	
Nickel	36.6	0.5	mg/kg	
Potassium	997	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	3,540	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-51-04 (0-5)
Sample No: 20-0971-008

Date Collected: 02/20/20
Time Collected: 11:15
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Preparation Method 3050B				
Analysis Date: 02/25/20 Preparation Date: 02/24/20				
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	27.8	1.0	mg/kg	
Zinc	47.1	1.0	mg/kg	
Total Mercury Method: 7471B				
Analysis Date: 02/24/20				
Mercury	0.07	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 02/24/20				
pH @ 25°C, 1:2	8.07		Units	
TCLP Extraction Method: 1311				
Analysis Date: 02/24/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 02/26/20 Preparation Date: 02/25/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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: 02/26/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/20/20
Project ID:	IDOT WO33 East Ave 81.0220509.67	Time Collected:	11:15
Sample ID:	2673V-51-04 (0-5)	Date Received:	02/21/20
Sample No:	20-0971-008	Date Reported:	03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/24/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/26/20		Preparation Date: 02/25/20		
Arsenic	0.011	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.045	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.053	0.005	mg/L	
Iron	44.9	0.1	mg/L	
Lead	0.016	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: 02/27/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-51-04 (0-5)
Sample No: 20-0971-008

Date Collected: 02/20/20
Time Collected: 11:15
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 105.8	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 101	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 102.3	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 70.6	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 67.8	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 43.9	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 84.8	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 77.6	35 - 105	
8270C	Phenol-d5 (surr)	%R: 59.8	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-51-04 (5-10)
Sample No: 20-0971-009

Date Collected: 02/20/20
Time Collected: 11:20
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/24/20				
Total Solids	80.62		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO33 East Ave 81.0220509.67
Sample ID: 2673V-51-04 (5-10)
Sample No: 20-0971-009

Date Collected: 02/20/20
Time Collected: 11:20
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
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: 02/25/20				
Preparation Date: 02/24/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-51-04 (5-10)
Sample No: 20-0971-009

Date Collected: 02/20/20
Time Collected: 11:20
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/25/20		Preparation Date: 02/24/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-51-04 (5-10)
Sample No: 20-0971-009

Date Collected: 02/20/20
Time Collected: 11:20
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/25/20		Preparation Date: 02/24/20		
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/25/20		Preparation Date: 02/24/20		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.2	1.0	mg/kg	
Barium	44.1	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	47,700	50	mg/kg	
Chromium	19.0	0.5	mg/kg	
Cobalt	10.6	0.5	mg/kg	
Copper	18.2	0.5	mg/kg	
Iron	20,400	5.0	mg/kg	
Lead	9.8	0.5	mg/kg	
Magnesium	20,600	50	mg/kg	
Manganese	324	0.5	mg/kg	
Nickel	27.2	0.5	mg/kg	
Potassium	2,090	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	445	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-51-04 (5-10)
Sample No: 20-0971-009

Date Collected: 02/20/20
Time Collected: 11:20
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/25/20		Preparation Date: 02/24/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	21.5	1.0	mg/kg	
Zinc	44.8	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/24/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/24/20				
pH @ 25°C, 1:2	8.57		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/24/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/26/20		Preparation Date: 02/25/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.5	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: 02/26/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/20/20
Project ID:	IDOT WO33 East Ave 81.0220509.67	Time Collected:	11:20
Sample ID:	2673V-51-04 (5-10)	Date Received:	02/21/20
Sample No:	20-0971-009	Date Reported:	03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/24/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/26/20		Preparation Date: 02/25/20		
Arsenic	0.011	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.046	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.036	0.005	mg/L	
Iron	46.9	0.1	mg/L	
Lead	0.021	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: 02/27/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-51-04 (5-10)
Sample No: 20-0971-009

Date Collected: 02/20/20
Time Collected: 11:20
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 105.1	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 101.8	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 100.1	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 94.2	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 62.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 60.1	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 85.8	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 76.5	35 - 105	
8270C	Phenol-d5 (surr)	%R: 65.5	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-51-05 (0-5)
Sample No: 20-0971-010

Date Collected: 02/20/20
Time Collected: 11:25
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/24/20				
Total Solids	78.49		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	8.9	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO33 East Ave 81.0220509.67
Sample ID: 2673V-51-05 (0-5)
Sample No: 20-0971-010

Date Collected: 02/20/20
Time Collected: 11:25
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
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: 02/25/20				
Preparation Date: 02/24/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-51-05 (0-5)
Sample No: 20-0971-010

Date Collected: 02/20/20
Time Collected: 11:25
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/25/20		Preparation Date: 02/24/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-51-05 (0-5)
Sample No: 20-0971-010

Date Collected: 02/20/20
Time Collected: 11:25
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/25/20		Preparation Date: 02/24/20		
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/25/20		Preparation Date: 02/24/20		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.4	1.0	mg/kg	
Barium	81.7	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	51,600	50	mg/kg	
Chromium	14.0	0.5	mg/kg	
Cobalt	8.7	0.5	mg/kg	
Copper	28.7	0.5	mg/kg	
Iron	18,600	5.0	mg/kg	
Lead	22.8	0.5	mg/kg	
Magnesium	32,100	50	mg/kg	
Manganese	431	0.5	mg/kg	
Nickel	23.7	0.5	mg/kg	
Potassium	1,130	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	4,150	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-51-05 (0-5)
Sample No: 20-0971-010

Date Collected: 02/20/20
Time Collected: 11:25
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/25/20		Method: 6010C		Preparation Method 3050B Preparation Date: 02/24/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	21.7	1.0	mg/kg	
Zinc	57.5	1.0	mg/kg	
Total Mercury Analysis Date: 02/24/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/24/20		Method: 9045D 2004		
pH @ 25°C, 1:2	8.72		Units	
TCLP Extraction Analysis Date: 02/24/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/26/20		Method: 6010C		Preparation Method 3010A Preparation Date: 02/25/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	4.0	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 Analysis Date: 02/26/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/20/20
Project ID:	IDOT WO33 East Ave 81.0220509.67	Time Collected:	11:25
Sample ID:	2673V-51-05 (0-5)	Date Received:	02/21/20
Sample No:	20-0971-010	Date Reported:	03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/24/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/26/20		Preparation Date: 02/25/20		
Arsenic	0.025	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.098	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.120	0.005	mg/L	
Iron	105	0.1	mg/L	
Lead	0.062	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	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/27/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-51-05 (0-5)
Sample No: 20-0971-010

Date Collected: 02/20/20
Time Collected: 11:25
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 104.8	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 101.2	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 103.9	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 96.6	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 61.6	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 55.5	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 87	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 71.9	35 - 105	
8270C	Phenol-d5 (surr)	%R: 61.9	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-51-05 (5-10)
Sample No: 20-0971-011

Date Collected: 02/20/20
Time Collected: 11:30
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/24/20				
Total Solids	82.61		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO33 East Ave 81.0220509.67
Sample ID: 2673V-51-05 (5-10)
Sample No: 20-0971-011

Date Collected: 02/20/20
Time Collected: 11:30
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
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: 02/25/20				
Preparation Date: 02/24/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-51-05 (5-10)
Sample No: 20-0971-011

Date Collected: 02/20/20
Time Collected: 11:30
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/25/20		Preparation Date: 02/24/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-51-05 (5-10)
Sample No: 20-0971-011

Date Collected: 02/20/20
Time Collected: 11:30
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/25/20		Preparation Date: 02/24/20		
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/25/20		Preparation Date: 02/24/20		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.5	1.0	mg/kg	
Barium	45.3	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	57,200	50	mg/kg	
Chromium	21.7	0.5	mg/kg	
Cobalt	19.6	0.5	mg/kg	
Copper	23.5	0.5	mg/kg	
Iron	23,100	5.0	mg/kg	
Lead	13.3	0.5	mg/kg	
Magnesium	25,000	50	mg/kg	
Manganese	356	0.5	mg/kg	
Nickel	30.0	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	1,860	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-51-05 (5-10)
Sample No: 20-0971-011

Date Collected: 02/20/20
Time Collected: 11:30
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		
Analysis Date: 02/25/20		Preparation Method 3050B		
		Preparation Date: 02/24/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	25.7	1.0	mg/kg	
Zinc	51.5	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/24/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/24/20				
pH @ 25°C, 1:2	8.90		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/24/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 02/26/20		Preparation Method 3010A		
		Preparation Date: 02/25/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	3.6	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: 02/26/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/20/20
Project ID:	IDOT WO33 East Ave 81.0220509.67	Time Collected:	11:30
Sample ID:	2673V-51-05 (5-10)	Date Received:	02/21/20
Sample No:	20-0971-011	Date Reported:	03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/24/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/26/20		Preparation Date: 02/25/20		
Arsenic	0.045	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.089	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.127	0.005	mg/L	
Iron	106	0.1	mg/L	
Lead	0.061	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: 02/27/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-51-05 (5-10)
Sample No: 20-0971-011

Date Collected: 02/20/20
Time Collected: 11:30
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 105.4	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 101.6	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 98.5	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 93.7	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 60.8	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 57.9	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 85.3	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 72.3	35 - 105	
8270C	Phenol-d5 (surr)	%R: 62.2	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-DUP-15
Sample No: 20-0971-051

Date Collected: 02/20/20
Time Collected: 9:05
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/24/20				
Total Solids	83.68		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/27/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO33 East Ave 81.0220509.67
Sample ID: 2673V-DUP-15
Sample No: 20-0971-051

Date Collected: 02/20/20
Time Collected: 9:05
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/27/20				
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: 02/26/20				
Preparation Date: 02/25/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-DUP-15
Sample No: 20-0971-051

Date Collected: 02/20/20
Time Collected: 9:05
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/26/20		Preparation Date: 02/25/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-DUP-15
Sample No: 20-0971-051

Date Collected: 02/20/20
Time Collected: 9:05
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/26/20				Preparation Date: 02/25/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/25/20				Preparation Date: 02/24/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.0	1.0	mg/kg	
Barium	60.2	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	58,400	50	mg/kg	
Chromium	21.3	0.5	mg/kg	
Cobalt	14.9	0.5	mg/kg	
Copper	23.7	0.5	mg/kg	
Iron	22,900	5.0	mg/kg	
Lead	11.6	0.5	mg/kg	
Magnesium	25,900	50	mg/kg	
Manganese	453	0.5	mg/kg	
Nickel	33.1	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	1,890	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC. **Date Collected:** 02/20/20
Project ID: IDOT WO33 East Ave 81.0220509.67 **Time Collected:** 9:05
Sample ID: 2673V-DUP-15 **Date Received:** 02/21/20
Sample No: 20-0971-051 **Date Reported:** 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/25/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/24/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	25.6	1.0	mg/kg	
Zinc	51.4	1.0	mg/kg	
Total Mercury Analysis Date: 02/25/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/26/20 8:30	Method: 9045D 2004			
pH @ 25°C, 1:2	8.99		Units	
TCLP Extraction Analysis Date: 02/24/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 03/02/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/27/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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 Analysis Date: 02/26/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.	Date Collected: 02/20/20
Project ID: IDOT WO33 East Ave 81.0220509.67	Time Collected: 9:05
Sample ID: 2673V-DUP-15	Date Received: 02/21/20
Sample No: 20-0971-051	Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/24/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/28/20		Preparation Date: 02/27/20		
Arsenic	0.081	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.010	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.314	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.337	0.005	mg/L	
Iron	296	0.1	mg/L	
Lead	0.148	0.005	mg/L	
Manganese	1.9	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	0.7	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/28/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-DUP-15
Sample No: 20-0971-051

Date Collected: 02/20/20
Time Collected: 9:05
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 94	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 103.5	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 100.6	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 67.8	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 65.5	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 65.9	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 84	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 82.5	35 - 105	
8270C	Phenol-d5 (surr)	%R: 71	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-51-05 (10-13)
Sample No: 20-0971-012

Date Collected: 02/20/20
Time Collected: 11:35
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/24/20				
Total Solids	82.00		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO33 East Ave 81.0220509.67
Sample ID: 2673V-51-05 (10-13)
Sample No: 20-0971-012

Date Collected: 02/20/20
Time Collected: 11:35
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
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: 02/25/20				
Preparation Date: 02/24/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-51-05 (10-13)
Sample No: 20-0971-012

Date Collected: 02/20/20
Time Collected: 11:35
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/25/20		Preparation Date: 02/24/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-51-05 (10-13)
Sample No: 20-0971-012

Date Collected: 02/20/20
Time Collected: 11:35
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/25/20		Preparation Date: 02/24/20		
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/25/20		Preparation Date: 02/24/20		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.3	1.0	mg/kg	
Barium	50.6	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	58,700	50	mg/kg	
Chromium	20.2	0.5	mg/kg	
Cobalt	10.7	0.5	mg/kg	
Copper	24.7	0.5	mg/kg	
Iron	20,500	5.0	mg/kg	
Lead	11.4	0.5	mg/kg	
Magnesium	25,500	50	mg/kg	
Manganese	318	0.5	mg/kg	
Nickel	29.8	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	1,340	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-51-05 (10-13)
Sample No: 20-0971-012

Date Collected: 02/20/20
Time Collected: 11:35
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/25/20		Method: 6010C		Preparation Method 3050B Preparation Date: 02/24/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	24.3	1.0	mg/kg	
Zinc	48.6	1.0	mg/kg	
Total Mercury Analysis Date: 02/24/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/24/20		Method: 9045D 2004		
pH @ 25°C, 1:2	8.85		Units	
TCLP Extraction Analysis Date: 02/24/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/26/20		Method: 6010C		Preparation Method 3010A Preparation Date: 02/25/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	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 Analysis Date: 02/26/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/20/20
Project ID:	IDOT WO33 East Ave 81.0220509.67	Time Collected:	11:35
Sample ID:	2673V-51-05 (10-13)	Date Received:	02/21/20
Sample No:	20-0971-012	Date Reported:	03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/24/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/26/20		Preparation Date: 02/25/20		
Arsenic	0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.090	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.090	0.005	mg/L	
Iron	77.1	0.1	mg/L	
Lead	0.043	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: 02/27/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-51-05 (10-13)
Sample No: 20-0971-012

Date Collected: 02/20/20
Time Collected: 11:35
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 104.2	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 101.5	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 104.4	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 69.9	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 55.6	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 59.7	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 79.5	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 72.3	35 - 105	
8270C	Phenol-d5 (surr)	%R: 67.4	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-56-01 (0-5)
Sample No: 20-0971-018

Date Collected: 02/20/20
Time Collected: 9:55
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/24/20				
Total Solids	81.89		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO33 East Ave 81.0220509.67
Sample ID: 2673V-56-01 (0-5)
Sample No: 20-0971-018

Date Collected: 02/20/20
Time Collected: 9:55
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
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: 02/25/20				
Preparation Date: 02/25/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-56-01 (0-5)
Sample No: 20-0971-018

Date Collected: 02/20/20
Time Collected: 9:55
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/25/20		Preparation Date: 02/25/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-56-01 (0-5)
Sample No: 20-0971-018

Date Collected: 02/20/20
Time Collected: 9:55
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/25/20				Preparation Date: 02/25/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/26/20				Preparation Date: 02/24/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.6	1.0	mg/kg	
Barium	92.0	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	33,900	50	mg/kg	
Chromium	20.5	0.5	mg/kg	
Cobalt	18.7	0.5	mg/kg	
Copper	24.7	0.5	mg/kg	
Iron	23,100	5.0	mg/kg	
Lead	15.0	0.5	mg/kg	
Magnesium	19,200	50	mg/kg	
Manganese	633	0.5	mg/kg	
Nickel	38.5	0.5	mg/kg	
Potassium	2,010	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	251	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-56-01 (0-5)
Sample No: 20-0971-018

Date Collected: 02/20/20
Time Collected: 9:55
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Preparation Method 3050B				
Analysis Date: 02/26/20 Preparation Date: 02/24/20				
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	27.0	1.0	mg/kg	
Zinc	43.9	1.0	mg/kg	
Total Mercury Method: 7471B				
Analysis Date: 02/24/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 02/25/20 7:45				
pH @ 25°C, 1:2	8.08		Units	
TCLP Extraction Method: 1311				
Analysis Date: 02/24/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 02/26/20 Preparation Date: 02/25/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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: 02/26/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-56-01 (0-5)
Sample No: 20-0971-018

Date Collected: 02/20/20
Time Collected: 9:55
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/24/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/26/20		Preparation Date: 02/25/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.006	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	4.5	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: 02/27/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-56-01 (0-5)
Sample No: 20-0971-018

Date Collected: 02/20/20
Time Collected: 9:55
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 105	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 101.4	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 104.6	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 64	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 52.6	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 57	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 78.9	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 70.1	35 - 105	
8270C	Phenol-d5 (surr)	%R: 63.6	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-56-01 (5-10)
Sample No: 20-0971-019

Date Collected: 02/20/20
Time Collected: 10:00
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/24/20				
Total Solids	82.66		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO33 East Ave 81.0220509.67
Sample ID: 2673V-56-01 (5-10)
Sample No: 20-0971-019

Date Collected: 02/20/20
Time Collected: 10:00
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
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: 02/25/20				
Preparation Date: 02/25/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-56-01 (5-10)
Sample No: 20-0971-019

Date Collected: 02/20/20
Time Collected: 10:00
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/25/20		Preparation Date: 02/25/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-56-01 (5-10)
Sample No: 20-0971-019

Date Collected: 02/20/20
Time Collected: 10:00
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/25/20				Preparation Date: 02/25/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/26/20				Preparation Date: 02/24/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.2	1.0	mg/kg	
Barium	47.2	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	50,600	50	mg/kg	
Chromium	19.3	0.5	mg/kg	
Cobalt	14.6	0.5	mg/kg	
Copper	22.9	0.5	mg/kg	
Iron	21,400	5.0	mg/kg	
Lead	12.8	0.5	mg/kg	
Magnesium	21,900	50	mg/kg	
Manganese	448	0.5	mg/kg	
Nickel	34.5	0.5	mg/kg	
Potassium	2,380	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	220	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-56-01 (5-10)
Sample No: 20-0971-019

Date Collected: 02/20/20
Time Collected: 10:00
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Preparation Method 3050B				
Analysis Date: 02/26/20 Preparation Date: 02/24/20				
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	24.1	1.0	mg/kg	
Zinc	46.4	1.0	mg/kg	
Total Mercury Method: 7471B				
Analysis Date: 02/24/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 02/25/20 7:45				
pH @ 25°C, 1:2	8.66		Units	
TCLP Extraction Method: 1311				
Analysis Date: 02/24/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 02/26/20 Preparation Date: 02/25/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	2.5	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: 02/26/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/20/20
Project ID:	IDOT WO33 East Ave 81.0220509.67	Time Collected:	10:00
Sample ID:	2673V-56-01 (5-10)	Date Received:	02/21/20
Sample No:	20-0971-019	Date Reported:	03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/24/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/26/20		Preparation Date: 02/25/20		
Arsenic	0.032	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.109	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.106	0.005	mg/L	
Iron	108	0.1	mg/L	
Lead	0.047	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	0.4	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/27/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-56-01 (5-10)
Sample No: 20-0971-019

Date Collected: 02/20/20
Time Collected: 10:00
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 105.7	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 102.1	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 102.6	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 63.9	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 53.8	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 59.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 79	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 71.6	35 - 105	
8270C	Phenol-d5 (surr)	%R: 65.2	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-56-01 (10-13)
Sample No: 20-0971-020

Date Collected: 02/20/20
Time Collected: 10:05
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/24/20				
Total Solids	82.70		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO33 East Ave 81.0220509.67
Sample ID: 2673V-56-01 (10-13)
Sample No: 20-0971-020

Date Collected: 02/20/20
Time Collected: 10:05
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
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: 02/25/20				
Preparation Date: 02/25/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-56-01 (10-13)
Sample No: 20-0971-020

Date Collected: 02/20/20
Time Collected: 10:05
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/25/20		Preparation Date: 02/25/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-56-01 (10-13)
Sample No: 20-0971-020

Date Collected: 02/20/20
Time Collected: 10:05
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/25/20				Preparation Date: 02/25/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/26/20				Preparation Date: 02/24/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.4	1.0	mg/kg	
Barium	43.2	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	51,400	50	mg/kg	
Chromium	18.9	0.5	mg/kg	
Cobalt	7.5	0.5	mg/kg	
Copper	20.6	0.5	mg/kg	
Iron	20,400	5.0	mg/kg	
Lead	11.3	0.5	mg/kg	
Magnesium	21,500	50	mg/kg	
Manganese	268	0.5	mg/kg	
Nickel	26.4	0.5	mg/kg	
Potassium	2,290	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	224	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-56-01 (10-13)
Sample No: 20-0971-020

Date Collected: 02/20/20
Time Collected: 10:05
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/26/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/24/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	22.8	1.0	mg/kg	
Zinc	44.2	1.0	mg/kg	
Total Mercury Analysis Date: 02/24/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/25/20 7:45	Method: 9045D 2004			
pH @ 25°C, 1:2	8.81		Units	
TCLP Extraction Analysis Date: 02/24/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/26/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/25/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	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 Analysis Date: 02/26/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/20/20
Project ID:	IDOT WO33 East Ave 81.0220509.67	Time Collected:	10:05
Sample ID:	2673V-56-01 (10-13)	Date Received:	02/21/20
Sample No:	20-0971-020	Date Reported:	03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/24/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/26/20		Preparation Date: 02/25/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.032	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.029	0.005	mg/L	
Iron	30.3	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: 02/27/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-56-01 (10-13)
Sample No: 20-0971-020

Date Collected: 02/20/20
Time Collected: 10:05
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 104.6	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 102	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 105.2	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 64.1	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 50.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 54.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 80.4	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 66.5	35 - 105	
8270C	Phenol-d5 (surr)	%R: 60.6	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-01 (0-5)
Sample No: 20-0971-021

Date Collected: 02/20/20
Time Collected: 11:40
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/24/20				
Total Solids	83.17		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-01 (0-5)
Sample No: 20-0971-021

Date Collected: 02/20/20
Time Collected: 11:40
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
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: 02/25/20				
Preparation Date: 02/25/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-01 (0-5)
Sample No: 20-0971-021

Date Collected: 02/20/20
Time Collected: 11:40
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/25/20		Preparation Date: 02/25/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-01 (0-5)
Sample No: 20-0971-021

Date Collected: 02/20/20
Time Collected: 11:40
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/25/20				Preparation Date: 02/25/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/26/20				Preparation Date: 02/24/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.2	1.0	mg/kg	
Barium	41.6	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	10,400	50	mg/kg	
Chromium	16.1	0.5	mg/kg	
Cobalt	7.0	0.5	mg/kg	
Copper	21.7	0.5	mg/kg	
Iron	18,100	5.0	mg/kg	
Lead	14.8	0.5	mg/kg	
Magnesium	7,120	50	mg/kg	
Manganese	248	0.5	mg/kg	
Nickel	21.6	0.5	mg/kg	
Potassium	992	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	2,060	50	mg/kg	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/20/20
Project ID:	IDOT WO33 East Ave 81.0220509.67	Time Collected:	11:40
Sample ID:	2673V-59-01 (0-5)	Date Received:	02/21/20
Sample No:	20-0971-021	Date Reported:	03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals				
Method: 6010C		Preparation Method 3050B		
Analysis Date: 02/26/20		Preparation Date: 02/24/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	26.5	1.0	mg/kg	
Zinc	43.7	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 02/24/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 02/25/20 7:45				
pH @ 25°C, 1:2	8.68		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 02/24/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311				
Method: 6010C		Preparation Method 3010A		
Analysis Date: 03/02/20		Preparation Date: 02/26/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.6	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: 02/26/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/20/20
Project ID:	IDOT WO33 East Ave 81.0220509.67	Time Collected:	11:40
Sample ID:	2673V-59-01 (0-5)	Date Received:	02/21/20
Sample No:	20-0971-021	Date Reported:	03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction Method: 1312				
Analysis Date: 02/24/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 02/28/20 Preparation Date: 02/26/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.073	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.076	0.005	mg/L	
Iron	63.2	0.1	mg/L	
Lead	0.035	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: 02/27/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-01 (0-5)
Sample No: 20-0971-021

Date Collected: 02/20/20
Time Collected: 11:40
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 104.2	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 102.1	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 99.7	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 66	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 66.6	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 60.4	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 84.6	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 79.8	35 - 105	
8270C	Phenol-d5 (surr)	%R: 69.8	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-01 (5-10)
Sample No: 20-0971-022

Date Collected: 02/20/20
Time Collected: 11:45
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/24/20				
Total Solids	82.55		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-01 (5-10)
Sample No: 20-0971-022

Date Collected: 02/20/20
Time Collected: 11:45
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
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: 02/27/20				
Preparation Date: 02/25/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-01 (5-10)
Sample No: 20-0971-022

Date Collected: 02/20/20
Time Collected: 11:45
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/27/20		Preparation Date: 02/25/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-01 (5-10)
Sample No: 20-0971-022

Date Collected: 02/20/20
Time Collected: 11:45
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/27/20		Preparation Date: 02/25/20		
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/26/20		Preparation Date: 02/24/20		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.3	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	36,800	50	mg/kg	
Chromium	14.2	0.5	mg/kg	
Cobalt	6.6	0.5	mg/kg	
Copper	22.9	0.5	mg/kg	
Iron	17,300	5.0	mg/kg	
Lead	10.3	0.5	mg/kg	
Magnesium	17,400	50	mg/kg	
Manganese	226	0.5	mg/kg	
Nickel	24.2	0.5	mg/kg	
Potassium	1,810	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	750	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-01 (5-10)
Sample No: 20-0971-022

Date Collected: 02/20/20
Time Collected: 11:45
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/26/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/24/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	18.0	1.0	mg/kg	
Zinc	36.6	1.0	mg/kg	
Total Mercury Analysis Date: 02/24/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/25/20 7:45	Method: 9045D 2004			
pH @ 25°C, 1:2	8.86		Units	
TCLP Extraction Analysis Date: 02/24/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 03/02/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/26/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.9	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 Analysis Date: 02/26/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/20/20
Project ID:	IDOT WO33 East Ave 81.0220509.67	Time Collected:	11:45
Sample ID:	2673V-59-01 (5-10)	Date Received:	02/21/20
Sample No:	20-0971-022	Date Reported:	03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction Method: 1312				
Analysis Date: 02/24/20				
SPLP Metals Extraction Complete				
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 02/28/20 Preparation Date: 02/26/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.041	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.053	0.005	mg/L	
Iron	42.8	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: 02/27/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-01 (5-10)
Sample No: 20-0971-022

Date Collected: 02/20/20
Time Collected: 11:45
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 103.3	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 101	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 105.3	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 72.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 56.8	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 58.3	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 73.1	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 72.2	35 - 105	
8270C	Phenol-d5 (surr)	%R: 65.3	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-02 (0-5)
Sample No: 20-0971-023

Date Collected: 02/20/20
Time Collected: 11:50
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/24/20				
Total Solids	79.50		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-02 (0-5)
Sample No: 20-0971-023

Date Collected: 02/20/20
Time Collected: 11:50
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
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: 02/26/20				
Preparation Date: 02/25/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	241	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-02 (0-5)
Sample No: 20-0971-023

Date Collected: 02/20/20
Time Collected: 11:50
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/26/20		Preparation Date: 02/25/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	446	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-02 (0-5)
Sample No: 20-0971-023

Date Collected: 02/20/20
Time Collected: 11:50
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/26/20				Preparation Date: 02/25/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	389	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/26/20				Preparation Date: 02/24/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.7	1.0	mg/kg	
Barium	85.4	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	67,800	50	mg/kg	
Chromium	17.1	0.5	mg/kg	
Cobalt	7.8	0.5	mg/kg	
Copper	27.8	0.5	mg/kg	
Iron	20,500	5.0	mg/kg	
Lead	18.6	0.5	mg/kg	
Magnesium	43,200	50	mg/kg	
Manganese	397	0.5	mg/kg	
Nickel	25.3	0.5	mg/kg	
Potassium	1,640	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	3,030	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-02 (0-5)
Sample No: 20-0971-023

Date Collected: 02/20/20
Time Collected: 11:50
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/26/20		Method: 6010C		Preparation Method 3050B Preparation Date: 02/24/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	23.6	1.0	mg/kg	
Zinc	64.2	1.0	mg/kg	
Total Mercury Analysis Date: 02/24/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/25/20 7:45		Method: 9045D 2004		
pH @ 25°C, 1:2	8.14		Units	
TCLP Extraction Analysis Date: 02/24/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 03/02/20		Method: 6010C		Preparation Method 3010A Preparation Date: 02/26/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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 Analysis Date: 02/26/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/20/20
Project ID:	IDOT WO33 East Ave 81.0220509.67	Time Collected:	11:50
Sample ID:	2673V-59-02 (0-5)	Date Received:	02/21/20
Sample No:	20-0971-023	Date Reported:	03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/24/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/28/20		Preparation Date: 02/26/20		
Arsenic	< 0.010	0.010	mg/L	
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	0.082	0.005	mg/L	
Iron	79.2	0.1	mg/L	
Lead	0.051	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: 02/27/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-02 (0-5)
Sample No: 20-0971-023

Date Collected: 02/20/20
Time Collected: 11:50
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 105.7	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 101.9	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 100	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 92	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 66.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 63.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 86.9	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 84.7	35 - 105	
8270C	Phenol-d5 (surr)	%R: 70.2	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-02 (5-10)
Sample No: 20-0971-024

Date Collected: 02/20/20
Time Collected: 11:55
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/24/20				
Total Solids	82.41		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-02 (5-10)
Sample No: 20-0971-024

Date Collected: 02/20/20
Time Collected: 11:55
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
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: 02/26/20				
Preparation Date: 02/25/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-02 (5-10)
Sample No: 20-0971-024

Date Collected: 02/20/20
Time Collected: 11:55
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/26/20		Preparation Date: 02/25/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-02 (5-10)
Sample No: 20-0971-024

Date Collected: 02/20/20
Time Collected: 11:55
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/26/20				Preparation Date: 02/25/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/26/20				Preparation Date: 02/24/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.4	1.0	mg/kg	
Barium	98.5	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	46,700	50	mg/kg	
Chromium	17.7	0.5	mg/kg	
Cobalt	9.4	0.5	mg/kg	
Copper	19.6	0.5	mg/kg	
Iron	20,000	5.0	mg/kg	
Lead	9.4	0.5	mg/kg	
Magnesium	20,400	50	mg/kg	
Manganese	233	0.5	mg/kg	
Nickel	27.3	0.5	mg/kg	
Potassium	2,300	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	1,520	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-02 (5-10)
Sample No: 20-0971-024

Date Collected: 02/20/20
Time Collected: 11:55
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Preparation Method 3050B				
Analysis Date: 02/26/20 Preparation Date: 02/24/20				
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	21.9	1.0	mg/kg	
Zinc	43.1	1.0	mg/kg	
Total Mercury Method: 7471B				
Analysis Date: 02/24/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 02/25/20 7:45				
pH @ 25°C, 1:2	8.90		Units	
TCLP Extraction Method: 1311				
Analysis Date: 02/24/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/02/20 Preparation Date: 02/26/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.9	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: 02/26/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/20/20
Project ID:	IDOT WO33 East Ave 81.0220509.67	Time Collected:	11:55
Sample ID:	2673V-59-02 (5-10)	Date Received:	02/21/20
Sample No:	20-0971-024	Date Reported:	03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/24/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/28/20		Preparation Date: 02/26/20		
Arsenic	0.024	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.079	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.076	0.005	mg/L	
Iron	78.5	0.1	mg/L	
Lead	0.035	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	0.2	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/27/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-02 (5-10)
Sample No: 20-0971-024

Date Collected: 02/20/20
Time Collected: 11:55
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 104.8	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 101.7	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 104.7	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 60.2	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 56.2	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 61.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 80.6	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 76.1	35 - 105	
8270C	Phenol-d5 (surr)	%R: 66.4	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-04 (0-5)
Sample No: 20-0971-027

Date Collected: 02/20/20
Time Collected: 12:15
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/24/20				
Total Solids	82.14		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-04 (0-5)
Sample No: 20-0971-027

Date Collected: 02/20/20
Time Collected: 12:15
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
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: 02/26/20				
Preparation Date: 02/25/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-04 (0-5)
Sample No: 20-0971-027

Date Collected: 02/20/20
Time Collected: 12:15
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/26/20		Preparation Date: 02/25/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-04 (0-5)
Sample No: 20-0971-027

Date Collected: 02/20/20
Time Collected: 12:15
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/26/20				Preparation Date: 02/25/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/26/20				Preparation Date: 02/24/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	13.0	1.0	mg/kg	
Barium	48.7	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	34,200	50	mg/kg	
Chromium	17.9	0.5	mg/kg	
Cobalt	9.0	0.5	mg/kg	
Copper	24.6	0.5	mg/kg	
Iron	21,000	5.0	mg/kg	
Lead	18.2	0.5	mg/kg	
Magnesium	21,000	50	mg/kg	
Manganese	424	0.5	mg/kg	
Nickel	25.4	0.5	mg/kg	
Potassium	1,400	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	2,380	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-04 (0-5)
Sample No: 20-0971-027

Date Collected: 02/20/20
Time Collected: 12:15
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		
Analysis Date: 02/26/20		Preparation Method 3050B		
		Preparation Date: 02/24/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	25.9	1.0	mg/kg	
Zinc	51.2	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/24/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/25/20 7:45				
pH @ 25°C, 1:2	8.63		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/24/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/02/20				Preparation Date: 02/26/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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: 02/26/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/20/20
Project ID:	IDOT WO33 East Ave 81.0220509.67	Time Collected:	12:15
Sample ID:	2673V-59-04 (0-5)	Date Received:	02/21/20
Sample No:	20-0971-027	Date Reported:	03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/24/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/28/20		Preparation Date: 02/26/20		
Arsenic	< 0.010	0.010	mg/L	
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	0.008	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: 02/27/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-04 (0-5)
Sample No: 20-0971-027

Date Collected: 02/20/20
Time Collected: 12:15
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 106.4	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 102.2	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 101.4	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 87	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 63.8	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 65.3	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 86.5	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 83.1	35 - 105	
8270C	Phenol-d5 (surr)	%R: 70.1	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/20/20

Project ID: IDOT WO33 East Ave 81.0220509.67

Time Collected: 12:20

Sample ID: 2673V-59-04 (5-11)

Date Received: 02/21/20

Sample No: 20-0971-028

Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/24/20				
Total Solids	82.77		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



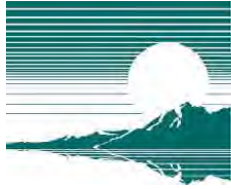
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-04 (5-11)
Sample No: 20-0971-028

Date Collected: 02/20/20
Time Collected: 12:20
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
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: 02/26/20				
Preparation Date: 02/25/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-04 (5-11)
Sample No: 20-0971-028

Date Collected: 02/20/20
Time Collected: 12:20
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/26/20		Preparation Date: 02/25/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-04 (5-11)
Sample No: 20-0971-028

Date Collected: 02/20/20
Time Collected: 12:20
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/26/20				Preparation Date: 02/25/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/26/20				Preparation Date: 02/24/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.5	1.0	mg/kg	
Barium	39.9	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	56,300	50	mg/kg	
Chromium	18.8	0.5	mg/kg	
Cobalt	7.9	0.5	mg/kg	
Copper	22.1	0.5	mg/kg	
Iron	21,100	5.0	mg/kg	
Lead	9.6	0.5	mg/kg	
Magnesium	24,200	50	mg/kg	
Manganese	284	0.5	mg/kg	
Nickel	28.4	0.5	mg/kg	
Potassium	2,370	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	1,560	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-04 (5-11)
Sample No: 20-0971-028

Date Collected: 02/20/20
Time Collected: 12:20
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Preparation Method 3050B				
Analysis Date: 02/26/20 Preparation Date: 02/24/20				
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	23.2	1.0	mg/kg	
Zinc	45.8	1.0	mg/kg	
Total Mercury Method: 7471B				
Analysis Date: 02/24/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 02/25/20 7:45				
pH @ 25°C, 1:2	8.98		Units	
TCLP Extraction Method: 1311				
Analysis Date: 02/24/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/02/20 Preparation Date: 02/26/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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: 02/26/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/20/20
Project ID:	IDOT WO33 East Ave 81.0220509.67	Time Collected:	12:20
Sample ID:	2673V-59-04 (5-11)	Date Received:	02/21/20
Sample No:	20-0971-028	Date Reported:	03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/24/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/28/20		Preparation Date: 02/26/20		
Arsenic	0.015	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.061	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.063	0.005	mg/L	
Iron	62.3	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	0.1	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/27/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-04 (5-11)
Sample No: 20-0971-028

Date Collected: 02/20/20
Time Collected: 12:20
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 104.7	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 102.2	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 105.6	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 83.3	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 61.5	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 62.9	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 83.7	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 77.6	35 - 105	
8270C	Phenol-d5 (surr)	%R: 66.2	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-DUP-16
Sample No: 20-0971-052

Date Collected: 02/20/20
Time Collected: 9:15
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/24/20				
Total Solids	83.72		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/27/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO33 East Ave 81.0220509.67
Sample ID: 2673V-DUP-16
Sample No: 20-0971-052

Date Collected: 02/20/20
Time Collected: 9:15
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/27/20				
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: 02/26/20				
Preparation Date: 02/25/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



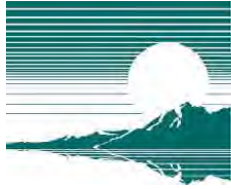
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-DUP-16
Sample No: 20-0971-052

Date Collected: 02/20/20
Time Collected: 9:15
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/26/20		Preparation Date: 02/25/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-DUP-16
Sample No: 20-0971-052

Date Collected: 02/20/20
Time Collected: 9:15
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/26/20				Preparation Date: 02/25/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/25/20				Preparation Date: 02/24/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.8	1.0	mg/kg	
Barium	61.7	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	55,600	50	mg/kg	
Chromium	20.6	0.5	mg/kg	
Cobalt	13.7	0.5	mg/kg	
Copper	22.9	0.5	mg/kg	
Iron	22,000	5.0	mg/kg	
Lead	11.3	0.5	mg/kg	
Magnesium	23,800	50	mg/kg	
Manganese	528	0.5	mg/kg	
Nickel	31.2	0.5	mg/kg	
Potassium	2,510	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,620	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-DUP-16
Sample No: 20-0971-052

Date Collected: 02/20/20
Time Collected: 9:15
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Preparation Method 3050B				
Analysis Date: 02/25/20 Preparation Date: 02/24/20				
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	24.7	1.0	mg/kg	
Zinc	50.8	1.0	mg/kg	
Total Mercury Method: 7471B				
Analysis Date: 02/25/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 02/26/20 8:30				
pH @ 25°C, 1:2	8.59		Units	
TCLP Extraction Method: 1311				
Analysis Date: 02/24/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/02/20 Preparation Date: 02/27/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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: 02/26/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/20/20
Project ID:	IDOT WO33 East Ave 81.0220509.67	Time Collected:	9:15
Sample ID:	2673V-DUP-16	Date Received:	02/21/20
Sample No:	20-0971-052	Date Reported:	03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/24/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/28/20		Preparation Date: 02/27/20		
Arsenic	0.058	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.008	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.261	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.256	0.005	mg/L	
Iron	242	0.1	mg/L	
Lead	0.104	0.005	mg/L	
Manganese	2.0	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: 02/28/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-DUP-16
Sample No: 20-0971-052

Date Collected: 02/20/20
Time Collected: 9:15
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 93.2	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 100.2	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 96.1	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 69	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 64.5	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 69.3	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 81	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 82.3	35 - 105	
8270C	Phenol-d5 (surr)	%R: 73.9	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-06 (0-5)
Sample No: 20-0971-032

Date Collected: 02/20/20
Time Collected: 12:42
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/24/20				
Total Solids	83.83		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-06 (0-5)
Sample No: 20-0971-032

Date Collected: 02/20/20
Time Collected: 12:42
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
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: 02/26/20				
Preparation Date: 02/25/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-06 (0-5)
Sample No: 20-0971-032

Date Collected: 02/20/20
Time Collected: 12:42
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/26/20		Preparation Date: 02/25/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-06 (0-5)
Sample No: 20-0971-032

Date Collected: 02/20/20
Time Collected: 12:42
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/26/20				Preparation Date: 02/25/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/26/20				Preparation Date: 02/24/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.8	1.0	mg/kg	
Barium	47.4	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	49,400	50	mg/kg	
Chromium	17.2	0.5	mg/kg	
Cobalt	9.1	0.5	mg/kg	
Copper	17.4	0.5	mg/kg	
Iron	17,800	5.0	mg/kg	
Lead	8.2	0.5	mg/kg	
Magnesium	20,600	50	mg/kg	
Manganese	319	0.5	mg/kg	
Nickel	25.5	0.5	mg/kg	
Potassium	1,950	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	1,390	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-06 (0-5)
Sample No: 20-0971-032

Date Collected: 02/20/20
Time Collected: 12:42
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/26/20				Preparation Date: 02/24/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	20.6	1.0	mg/kg	
Zinc	40.0	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/24/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/25/20 7:45				
pH @ 25°C, 1:2	8.90		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/24/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/02/20				Preparation Date: 02/26/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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: 02/26/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/20/20
Project ID:	IDOT WO33 East Ave 81.0220509.67	Time Collected:	12:42
Sample ID:	2673V-59-06 (0-5)	Date Received:	02/21/20
Sample No:	20-0971-032	Date Reported:	03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/24/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/28/20		Preparation Date: 02/26/20		
Arsenic	0.017	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.077	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.073	0.005	mg/L	
Iron	71.0	0.1	mg/L	
Lead	0.025	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	0.2	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/27/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-06 (0-5)
Sample No: 20-0971-032

Date Collected: 02/20/20
Time Collected: 12:42
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 106.3	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 101.8	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 104.8	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 67.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 60.8	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 65.7	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 78.8	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 77.1	35 - 105	
8270C	Phenol-d5 (surr)	%R: 69.9	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-06 (5-11)
Sample No: 20-0971-033

Date Collected: 02/20/20
Time Collected: 12:45
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/24/20				
Total Solids	82.77		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-06 (5-11)
Sample No: 20-0971-033

Date Collected: 02/20/20
Time Collected: 12:45
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
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: 02/26/20				
Preparation Date: 02/25/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-06 (5-11)
Sample No: 20-0971-033

Date Collected: 02/20/20
Time Collected: 12:45
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/26/20		Preparation Date: 02/25/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-06 (5-11)
Sample No: 20-0971-033

Date Collected: 02/20/20
Time Collected: 12:45
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/26/20				Preparation Date: 02/25/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/26/20				Preparation Date: 02/24/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.1	1.0	mg/kg	
Barium	47.0	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	53,700	50	mg/kg	
Chromium	18.9	0.5	mg/kg	
Cobalt	11.6	0.5	mg/kg	
Copper	21.8	0.5	mg/kg	
Iron	20,900	5.0	mg/kg	
Lead	10.1	0.5	mg/kg	
Magnesium	22,200	50	mg/kg	
Manganese	466	0.5	mg/kg	
Nickel	32.4	0.5	mg/kg	
Potassium	2,370	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	999	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC. **Date Collected:** 02/20/20
Project ID: IDOT WO33 East Ave 81.0220509.67 **Time Collected:** 12:45
Sample ID: 2673V-59-06 (5-11) **Date Received:** 02/21/20
Sample No: 20-0971-033 **Date Reported:** 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/26/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/24/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	23.6	1.0	mg/kg	
Zinc	43.7	1.0	mg/kg	
Total Mercury Analysis Date: 02/24/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/25/20 7:45	Method: 9045D 2004			
pH @ 25°C, 1:2	8.30		Units	
TCLP Extraction Analysis Date: 02/24/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 03/02/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/26/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	2.4	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 Analysis Date: 02/26/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/20/20
Project ID:	IDOT WO33 East Ave 81.0220509.67	Time Collected:	12:45
Sample ID:	2673V-59-06 (5-11)	Date Received:	02/21/20
Sample No:	20-0971-033	Date Reported:	03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction Method: 1312				
Analysis Date: 02/24/20				
SPLP Metals Extraction Complete				
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 02/28/20 Preparation Date: 02/26/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.006	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.007	0.005	mg/L	
Iron	3.7	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: 02/27/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-06 (5-11)
Sample No: 20-0971-033

Date Collected: 02/20/20
Time Collected: 12:45
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 106.9	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 102.5	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 102.7	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 67.8	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 62.7	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 64.5	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 81.7	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 79.4	35 - 105	
8270C	Phenol-d5 (surr)	%R: 68.5	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-08 (0-5)
Sample No: 20-0971-037

Date Collected: 02/20/20
Time Collected: 13:25
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/24/20				
Total Solids	80.66		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-08 (0-5)
Sample No: 20-0971-037

Date Collected: 02/20/20
Time Collected: 13:25
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
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: 02/26/20				
Preparation Date: 02/25/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-08 (0-5)
Sample No: 20-0971-037

Date Collected: 02/20/20
Time Collected: 13:25
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/26/20		Preparation Date: 02/25/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-08 (0-5)
Sample No: 20-0971-037

Date Collected: 02/20/20
Time Collected: 13:25
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/26/20				Preparation Date: 02/25/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/25/20				Preparation Date: 02/24/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.4	1.0	mg/kg	
Barium	78.7	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	6,020	50	mg/kg	
Chromium	19.6	0.5	mg/kg	
Cobalt	10.2	0.5	mg/kg	
Copper	19.0	0.5	mg/kg	
Iron	22,100	5.0	mg/kg	
Lead	17.1	0.5	mg/kg	
Magnesium	5,030	50	mg/kg	
Manganese	294	0.5	mg/kg	
Nickel	21.2	0.5	mg/kg	
Potassium	1,320	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	3,080	50	mg/kg	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/20/20
Project ID:	IDOT WO33 East Ave 81.0220509.67	Time Collected:	13:25
Sample ID:	2673V-59-08 (0-5)	Date Received:	02/21/20
Sample No:	20-0971-037	Date Reported:	03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/25/20				Preparation Date: 02/24/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	34.5	1.0	mg/kg	
Zinc	43.8	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/25/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/25/20 7:45				
pH @ 25°C, 1:2	8.37		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/24/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/02/20				Preparation Date: 02/26/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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: 02/26/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/20/20
Project ID:	IDOT WO33 East Ave 81.0220509.67	Time Collected:	13:25
Sample ID:	2673V-59-08 (0-5)	Date Received:	02/21/20
Sample No:	20-0971-037	Date Reported:	03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/24/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/28/20		Preparation Date: 02/26/20		
Arsenic	0.020	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.103	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.092	0.005	mg/L	
Iron	95.7	0.1	mg/L	
Lead	0.062	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: 02/27/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-08 (0-5)
Sample No: 20-0971-037

Date Collected: 02/20/20
Time Collected: 13:25
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 98	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 100.5	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 103.4	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 66.7	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 64.3	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 65.6	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 83.7	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 81.6	35 - 105	
8270C	Phenol-d5 (surr)	%R: 69.9	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-08 (5-10)
Sample No: 20-0971-038

Date Collected: 02/20/20
Time Collected: 13:30
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/24/20				
Total Solids	75.30		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-08 (5-10)
Sample No: 20-0971-038

Date Collected: 02/20/20
Time Collected: 13:30
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
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: 02/26/20				
Preparation Date: 02/25/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-08 (5-10)
Sample No: 20-0971-038

Date Collected: 02/20/20
Time Collected: 13:30
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/26/20		Preparation Date: 02/25/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-08 (5-10)
Sample No: 20-0971-038

Date Collected: 02/20/20
Time Collected: 13:30
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/26/20				Preparation Date: 02/25/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/25/20				Preparation Date: 02/24/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.8	1.0	mg/kg	
Barium	78.2	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	13,600	50	mg/kg	
Chromium	22.9	0.5	mg/kg	
Cobalt	6.6	0.5	mg/kg	
Copper	26.6	0.5	mg/kg	
Iron	22,400	5.0	mg/kg	
Lead	11.0	0.5	mg/kg	
Magnesium	11,000	50	mg/kg	
Manganese	152	0.5	mg/kg	
Nickel	26.0	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	1,440	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-08 (5-10)
Sample No: 20-0971-038

Date Collected: 02/20/20
Time Collected: 13:30
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Preparation Method 3050B				
Analysis Date: 02/25/20 Preparation Date: 02/24/20				
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	24.3	1.0	mg/kg	
Zinc	62.3	1.0	mg/kg	
Total Mercury Method: 7471B				
Analysis Date: 02/25/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 02/25/20 7:45				
pH @ 25°C, 1:2	8.32		Units	
TCLP Extraction Method: 1311				
Analysis Date: 02/24/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/02/20 Preparation Date: 02/26/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.3	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.5	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: 02/26/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/20/20
Project ID:	IDOT WO33 East Ave 81.0220509.67	Time Collected:	13:30
Sample ID:	2673V-59-08 (5-10)	Date Received:	02/21/20
Sample No:	20-0971-038	Date Reported:	03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/24/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/28/20		Preparation Date: 02/26/20		
Arsenic	0.012	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.106	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.102	0.005	mg/L	
Iron	94.4	0.1	mg/L	
Lead	0.048	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	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/27/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-08 (5-10)
Sample No: 20-0971-038

Date Collected: 02/20/20
Time Collected: 13:30
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 89.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 97	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 80.7	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 68.6	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 57.8	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 66.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 81.9	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 77.8	35 - 105	
8270C	Phenol-d5 (surr)	%R: 72.3	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-08 (10-15)
Sample No: 20-0971-039

Date Collected: 02/20/20
Time Collected: 13:35
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/24/20				
Total Solids	82.41		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-08 (10-15)
Sample No: 20-0971-039

Date Collected: 02/20/20
Time Collected: 13:35
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
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: 02/26/20				
Preparation Date: 02/25/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-08 (10-15)
Sample No: 20-0971-039

Date Collected: 02/20/20
Time Collected: 13:35
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/26/20		Preparation Date: 02/25/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-08 (10-15)
Sample No: 20-0971-039

Date Collected: 02/20/20
Time Collected: 13:35
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/26/20				Preparation Date: 02/25/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/25/20				Preparation Date: 02/24/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.4	1.0	mg/kg	
Barium	36.8	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	53,600	50	mg/kg	
Chromium	19.5	0.5	mg/kg	
Cobalt	9.9	0.5	mg/kg	
Copper	20.3	0.5	mg/kg	
Iron	20,900	5.0	mg/kg	
Lead	10.2	0.5	mg/kg	
Magnesium	23,400	50	mg/kg	
Manganese	325	0.5	mg/kg	
Nickel	27.8	0.5	mg/kg	
Potassium	2,480	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	672	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC. **Date Collected:** 02/20/20
Project ID: IDOT WO33 East Ave 81.0220509.67 **Time Collected:** 13:35
Sample ID: 2673V-59-08 (10-15) **Date Received:** 02/21/20
Sample No: 20-0971-039 **Date Reported:** 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Preparation Method 3050B				
Analysis Date: 02/25/20 Preparation Date: 02/24/20				
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	24.0	1.0	mg/kg	
Zinc	42.5	1.0	mg/kg	
Total Mercury Method: 7471B				
Analysis Date: 02/25/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 02/25/20 7:45				
pH @ 25°C, 1:2	7.22		Units	
TCLP Extraction Method: 1311				
Analysis Date: 02/24/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/02/20 Preparation Date: 02/26/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	1.8	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: 02/26/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/20/20
Project ID:	IDOT WO33 East Ave 81.0220509.67	Time Collected:	13:35
Sample ID:	2673V-59-08 (10-15)	Date Received:	02/21/20
Sample No:	20-0971-039	Date Reported:	03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/24/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/28/20		Preparation Date: 02/26/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.006	0.005	mg/L	
Iron	2.3	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: 02/27/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-08 (10-15)
Sample No: 20-0971-039

Date Collected: 02/20/20
Time Collected: 13:35
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 94	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 100.1	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 99.3	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 66.9	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 62.1	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 67.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 82.4	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 82.7	35 - 105	
8270C	Phenol-d5 (surr)	%R: 70.9	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-08 (15-20)
Sample No: 20-0971-040

Date Collected: 02/20/20
Time Collected: 13:40
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/24/20				
Total Solids	83.31		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-08 (15-20)
Sample No: 20-0971-040

Date Collected: 02/20/20
Time Collected: 13:40
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
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: 02/26/20				
Preparation Date: 02/25/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-08 (15-20)
Sample No: 20-0971-040

Date Collected: 02/20/20
Time Collected: 13:40
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/26/20		Preparation Date: 02/25/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-08 (15-20)
Sample No: 20-0971-040

Date Collected: 02/20/20
Time Collected: 13:40
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/26/20				Preparation Date: 02/25/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/25/20				Preparation Date: 02/24/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	1.5	1.0	mg/kg	
Barium	31.5	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	45,900	50	mg/kg	
Chromium	8.9	0.5	mg/kg	
Cobalt	4.6	0.5	mg/kg	
Copper	8.0	0.5	mg/kg	
Iron	9,230	5.0	mg/kg	
Lead	5.2	0.5	mg/kg	
Magnesium	23,100	50	mg/kg	
Manganese	185	0.5	mg/kg	
Nickel	12.5	0.5	mg/kg	
Potassium	1,350	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	198	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-08 (15-20)
Sample No: 20-0971-040

Date Collected: 02/20/20
Time Collected: 13:40
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		
Analysis Date: 02/25/20		Preparation Method 3050B		
		Preparation Date: 02/24/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	10.3	1.0	mg/kg	
Zinc	19.7	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/25/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/25/20 7:45				
pH @ 25°C, 1:2	8.13		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/24/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 03/02/20		Preparation Method 3010A		
		Preparation Date: 02/26/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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: 02/26/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/20/20
Project ID:	IDOT WO33 East Ave 81.0220509.67	Time Collected:	13:40
Sample ID:	2673V-59-08 (15-20)	Date Received:	02/21/20
Sample No:	20-0971-040	Date Reported:	03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/24/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/28/20		Preparation Date: 02/26/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	0.8	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: 02/27/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-08 (15-20)
Sample No: 20-0971-040

Date Collected: 02/20/20
Time Collected: 13:40
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 90.6	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 98.2	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 90	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 62.6	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 62.3	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 68.4	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 80	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 82.7	35 - 105	
8270C	Phenol-d5 (surr)	%R: 73.9	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-DUP-17
Sample No: 20-0971-053

Date Collected: 02/20/20
Time Collected: 9:30
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/24/20				
Total Solids	84.76		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/27/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO33 East Ave 81.0220509.67
Sample ID: 2673V-DUP-17
Sample No: 20-0971-053

Date Collected: 02/20/20
Time Collected: 9:30
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/27/20				
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: 02/26/20				
Preparation Date: 02/25/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-DUP-17
Sample No: 20-0971-053

Date Collected: 02/20/20
Time Collected: 9:30
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/26/20		Preparation Date: 02/25/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-DUP-17
Sample No: 20-0971-053

Date Collected: 02/20/20
Time Collected: 9:30
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/26/20		Preparation Date: 02/25/20		
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/25/20		Preparation Date: 02/24/20		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.0	1.0	mg/kg	
Barium	15.8	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	27,900	50	mg/kg	
Chromium	9.2	0.5	mg/kg	
Cobalt	4.9	0.5	mg/kg	
Copper	8.6	0.5	mg/kg	
Iron	9,870	5.0	mg/kg	
Lead	4.2	0.5	mg/kg	
Magnesium	12,100	50	mg/kg	
Manganese	181	0.5	mg/kg	
Nickel	13.6	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	180	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-DUP-17
Sample No: 20-0971-053

Date Collected: 02/20/20
Time Collected: 9:30
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		
Analysis Date: 02/25/20		Preparation Method 3050B		
		Preparation Date: 02/24/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	10.7	1.0	mg/kg	
Zinc	20.4	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/25/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/26/20 8:30				
pH @ 25°C, 1:2	8.28		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/24/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/02/20				Preparation Date: 02/27/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	2.3	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: 02/26/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/20/20
Project ID:	IDOT WO33 East Ave 81.0220509.67	Time Collected:	9:30
Sample ID:	2673V-DUP-17	Date Received:	02/21/20
Sample No:	20-0971-053	Date Reported:	03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/24/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/28/20		Preparation Date: 02/27/20		
Arsenic	0.015	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.148	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.117	0.005	mg/L	
Iron	134	0.1	mg/L	
Lead	0.059	0.005	mg/L	
Manganese	2.1	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	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/28/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-DUP-17
Sample No: 20-0971-053

Date Collected: 02/20/20
Time Collected: 9:30
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 96.2	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 101.5	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 103.6	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 59.2	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 62.2	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 66.5	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 78	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 77.7	35 - 105	
8270C	Phenol-d5 (surr)	%R: 70	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-10 (0-5)
Sample No: 20-0971-043

Date Collected: 02/20/20
Time Collected: 14:10
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/24/20				
Total Solids	80.83		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-10 (0-5)
Sample No: 20-0971-043

Date Collected: 02/20/20
Time Collected: 14:10
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
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: 02/26/20				
Preparation Date: 02/25/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	208	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-10 (0-5)
Sample No: 20-0971-043

Date Collected: 02/20/20
Time Collected: 14:10
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/26/20		Preparation Date: 02/25/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	376	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-10 (0-5)
Sample No: 20-0971-043

Date Collected: 02/20/20
Time Collected: 14:10
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/26/20		Preparation Date: 02/25/20		
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/25/20		Preparation Date: 02/24/20		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.4	1.0	mg/kg	
Barium	49.1	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	56,400	50	mg/kg	
Chromium	15.8	0.5	mg/kg	
Cobalt	6.6	0.5	mg/kg	
Copper	22.2	0.5	mg/kg	
Iron	15,600	5.0	mg/kg	
Lead	212	0.5	mg/kg	
Magnesium	29,700	50	mg/kg	
Manganese	367	0.5	mg/kg	
Nickel	18.7	0.5	mg/kg	
Potassium	1,560	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,070	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-10 (0-5)
Sample No: 20-0971-043

Date Collected: 02/20/20
Time Collected: 14:10
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/25/20		Preparation Date: 02/24/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	18.5	1.0	mg/kg	
Zinc	68.9	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/25/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/26/20 8:30				
pH @ 25°C, 1:2	8.97		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/24/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/02/20		Preparation Date: 02/27/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	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: 02/26/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/20/20
Project ID:	IDOT WO33 East Ave 81.0220509.67	Time Collected:	14:10
Sample ID:	2673V-59-10 (0-5)	Date Received:	02/21/20
Sample No:	20-0971-043	Date Reported:	03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/24/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/28/20		Preparation Date: 02/27/20		
Arsenic	0.021	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.084	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.107	0.005	mg/L	
Iron	78.4	0.1	mg/L	
Lead	0.298	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	0.4	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/28/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-10 (0-5)
Sample No: 20-0971-043

Date Collected: 02/20/20
Time Collected: 14:10
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 95.4	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 101.2	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 102.2	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 90.8	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 76.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 62.6	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 87.3	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 84.8	35 - 105	
8270C	Phenol-d5 (surr)	%R: 71.9	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-10 (5-10)
Sample No: 20-0971-044

Date Collected: 02/20/20
Time Collected: 14:15
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/24/20				
Total Solids	82.21		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-10 (5-10)
Sample No: 20-0971-044

Date Collected: 02/20/20
Time Collected: 14:15
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
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: 02/26/20				
Preparation Date: 02/25/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-10 (5-10)
Sample No: 20-0971-044

Date Collected: 02/20/20
Time Collected: 14:15
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/26/20		Preparation Date: 02/25/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-10 (5-10)
Sample No: 20-0971-044

Date Collected: 02/20/20
Time Collected: 14:15
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/26/20		Preparation Date: 02/25/20		
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/25/20		Preparation Date: 02/24/20		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.6	1.0	mg/kg	
Barium	27.8	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	37,800	50	mg/kg	
Chromium	11.6	0.5	mg/kg	
Cobalt	6.4	0.5	mg/kg	
Copper	14.3	0.5	mg/kg	
Iron	13,200	5.0	mg/kg	
Lead	8.1	0.5	mg/kg	
Magnesium	17,300	50	mg/kg	
Manganese	256	0.5	mg/kg	
Nickel	18.0	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	707	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-10 (5-10)
Sample No: 20-0971-044

Date Collected: 02/20/20
Time Collected: 14:15
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Preparation Method 3050B				
Analysis Date: 02/25/20 Preparation Date: 02/24/20				
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	14.0	1.0	mg/kg	
Zinc	27.7	1.0	mg/kg	
Total Mercury Method: 7471B				
Analysis Date: 02/25/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 02/26/20 8:30				
pH @ 25°C, 1:2	8.48		Units	
TCLP Extraction Method: 1311				
Analysis Date: 02/24/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/02/20 Preparation Date: 02/27/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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: 02/26/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/20/20
Project ID:	IDOT WO33 East Ave 81.0220509.67	Time Collected:	14:15
Sample ID:	2673V-59-10 (5-10)	Date Received:	02/21/20
Sample No:	20-0971-044	Date Reported:	03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/24/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/28/20		Preparation Date: 02/27/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.011	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.009	0.005	mg/L	
Iron	6.7	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: 02/28/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-10 (5-10)
Sample No: 20-0971-044

Date Collected: 02/20/20
Time Collected: 14:15
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 91.1	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 99.4	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 94	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 63.1	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 63.1	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 66.5	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 82.3	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 81.4	35 - 105	
8270C	Phenol-d5 (surr)	%R: 70.5	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-10 (10-15)
Sample No: 20-0971-045

Date Collected: 02/20/20
Time Collected: 14:20
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/24/20				
Total Solids	82.81		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	15.3	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-10 (10-15)
Sample No: 20-0971-045

Date Collected: 02/20/20
Time Collected: 14:20
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
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: 02/26/20				
Preparation Date: 02/25/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-10 (10-15)
Sample No: 20-0971-045

Date Collected: 02/20/20
Time Collected: 14:20
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/26/20		Preparation Date: 02/25/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-10 (10-15)
Sample No: 20-0971-045

Date Collected: 02/20/20
Time Collected: 14:20
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/26/20				Preparation Date: 02/25/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/25/20				Preparation Date: 02/24/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.5	1.0	mg/kg	
Barium	29.1	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	57,200	50	mg/kg	
Chromium	14.0	0.5	mg/kg	
Cobalt	9.2	0.5	mg/kg	
Copper	37.0	0.5	mg/kg	
Iron	20,100	5.0	mg/kg	
Lead	17.4	0.5	mg/kg	
Magnesium	31,500	50	mg/kg	
Manganese	400	0.5	mg/kg	
Nickel	28.2	0.5	mg/kg	
Potassium	1,850	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	623	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-10 (10-15)
Sample No: 20-0971-045

Date Collected: 02/20/20
Time Collected: 14:20
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Preparation Method 3050B				
Analysis Date: 02/25/20 Preparation Date: 02/24/20				
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	18.6	1.0	mg/kg	
Zinc	50.1	1.0	mg/kg	
Total Mercury Method: 7471B				
Analysis Date: 02/25/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 02/26/20 8:30				
pH @ 25°C, 1:2	8.83		Units	
TCLP Extraction Method: 1311				
Analysis Date: 02/24/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/02/20 Preparation Date: 02/27/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	2.4	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: 02/26/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/20/20
Project ID:	IDOT WO33 East Ave 81.0220509.67	Time Collected:	14:20
Sample ID:	2673V-59-10 (10-15)	Date Received:	02/21/20
Sample No:	20-0971-045	Date Reported:	03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/24/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/28/20		Preparation Date: 02/27/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.014	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.024	0.005	mg/L	
Iron	12.4	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: 02/28/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-10 (10-15)
Sample No: 20-0971-045

Date Collected: 02/20/20
Time Collected: 14:20
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 94.9	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 98.9	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 97.6	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 63.8	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 68.2	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 68.2	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 80.1	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 84.3	35 - 105	
8270C	Phenol-d5 (surr)	%R: 73.6	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-10 (15-20)
Sample No: 20-0971-046

Date Collected: 02/20/20
Time Collected: 14:25
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/24/20				
Total Solids	83.11		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-10 (15-20)
Sample No: 20-0971-046

Date Collected: 02/20/20
Time Collected: 14:25
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
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: 02/26/20				
Preparation Date: 02/25/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-10 (15-20)
Sample No: 20-0971-046

Date Collected: 02/20/20
Time Collected: 14:25
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/26/20		Preparation Date: 02/25/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-10 (15-20)
Sample No: 20-0971-046

Date Collected: 02/20/20
Time Collected: 14:25
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/26/20		Preparation Date: 02/25/20		
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/25/20		Preparation Date: 02/24/20		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.0	1.0	mg/kg	
Barium	18.5	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	22,500	50	mg/kg	
Chromium	7.2	0.5	mg/kg	
Cobalt	7.1	0.5	mg/kg	
Copper	10.1	0.5	mg/kg	
Iron	8,430	5.0	mg/kg	
Lead	4.6	0.5	mg/kg	
Magnesium	9,880	50	mg/kg	
Manganese	158	0.5	mg/kg	
Nickel	17.3	0.5	mg/kg	
Potassium	866	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	198	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-10 (15-20)
Sample No: 20-0971-046

Date Collected: 02/20/20
Time Collected: 14:25
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Preparation Method 3050B				
Analysis Date: 02/25/20 Preparation Date: 02/24/20				
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	8.5	1.0	mg/kg	
Zinc	17.3	1.0	mg/kg	
Total Mercury Method: 7471B				
Analysis Date: 02/25/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 02/26/20 8:30				
pH @ 25°C, 1:2	8.57		Units	
TCLP Extraction Method: 1311				
Analysis Date: 02/24/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/02/20 Preparation Date: 02/27/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	2.3	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: 02/26/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/20/20
Project ID:	IDOT WO33 East Ave 81.0220509.67	Time Collected:	14:25
Sample ID:	2673V-59-10 (15-20)	Date Received:	02/21/20
Sample No:	20-0971-046	Date Reported:	03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction Method: 1312				
Analysis Date: 02/24/20				
SPLP Metals Extraction Complete				
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 02/28/20 Preparation Date: 02/27/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	0.6	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: 02/28/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-10 (15-20)
Sample No: 20-0971-046

Date Collected: 02/20/20
Time Collected: 14:25
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 89.8	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 98.9	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 89.5	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 60.9	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 67.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 64.5	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 81.4	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 79.7	35 - 105	
8270C	Phenol-d5 (surr)	%R: 71.1	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-11 (0-5)
Sample No: 20-0971-047

Date Collected: 02/20/20
Time Collected: 14:30
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/24/20				
Total Solids	91.69		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-11 (0-5)
Sample No: 20-0971-047

Date Collected: 02/20/20
Time Collected: 14:30
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
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: 02/26/20				
Preparation Date: 02/25/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	131	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-11 (0-5)
Sample No: 20-0971-047

Date Collected: 02/20/20
Time Collected: 14:30
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/26/20		Preparation Date: 02/25/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-11 (0-5)
Sample No: 20-0971-047

Date Collected: 02/20/20
Time Collected: 14:30
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/26/20				Preparation Date: 02/25/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/25/20				Preparation Date: 02/24/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.7	1.0	mg/kg	
Barium	49.4	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	63,100	50	mg/kg	
Chromium	16.1	0.5	mg/kg	
Cobalt	6.2	0.5	mg/kg	
Copper	21.5	0.5	mg/kg	
Iron	18,600	5.0	mg/kg	
Lead	76.4	0.5	mg/kg	
Magnesium	28,500	50	mg/kg	
Manganese	357	0.5	mg/kg	
Nickel	19.1	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	1,280	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-11 (0-5)
Sample No: 20-0971-047

Date Collected: 02/20/20
Time Collected: 14:30
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/25/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/24/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	18.8	1.0	mg/kg	
Zinc	60.3	1.0	mg/kg	
Total Mercury Analysis Date: 02/25/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/26/20 8:30	Method: 9045D 2004			
pH @ 25°C, 1:2	8.39		Units	
TCLP Extraction Analysis Date: 02/24/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 03/02/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/27/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.041	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 Analysis Date: 02/26/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/20/20
Project ID:	IDOT WO33 East Ave 81.0220509.67	Time Collected:	14:30
Sample ID:	2673V-59-11 (0-5)	Date Received:	02/21/20
Sample No:	20-0971-047	Date Reported:	03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/24/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/28/20		Preparation Date: 02/27/20		
Arsenic	0.025	0.010	mg/L	
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	0.126	0.005	mg/L	
Iron	75.6	0.1	mg/L	
Lead	0.558	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	0.4	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/28/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-11 (0-5)
Sample No: 20-0971-047

Date Collected: 02/20/20
Time Collected: 14:30
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 95	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 100.8	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 105.5	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 67.2	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 70.3	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 64.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 82.5	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 80.8	35 - 105	
8270C	Phenol-d5 (surr)	%R: 72.9	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-11 (5-10)
Sample No: 20-0971-048

Date Collected: 02/20/20
Time Collected: 14:35
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/24/20				
Total Solids	77.58		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-11 (5-10)
Sample No: 20-0971-048

Date Collected: 02/20/20
Time Collected: 14:35
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
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: 02/26/20				
Preparation Date: 02/25/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



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Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/26/20		Preparation Date: 02/25/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



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Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/26/20				Preparation Date: 02/25/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/25/20				Preparation Date: 02/24/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.5	1.0	mg/kg	
Barium	113	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	32,100	50	mg/kg	
Chromium	20.6	0.5	mg/kg	
Cobalt	11.4	0.5	mg/kg	
Copper	24.3	0.5	mg/kg	
Iron	22,800	5.0	mg/kg	
Lead	12.9	0.5	mg/kg	
Magnesium	15,300	50	mg/kg	
Manganese	547	0.5	mg/kg	
Nickel	29.9	0.5	mg/kg	
Potassium	1,660	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	2,090	50	mg/kg	



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Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Preparation Method 3050B				
Analysis Date: 02/25/20 Preparation Date: 02/24/20				
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	27.5	1.0	mg/kg	
Zinc	45.2	1.0	mg/kg	
Total Mercury Method: 7471B				
Analysis Date: 02/25/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 02/26/20 8:30				
pH @ 25°C, 1:2	8.28		Units	
TCLP Extraction Method: 1311				
Analysis Date: 02/24/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/02/20 Preparation Date: 02/27/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	5.6	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: 02/26/20				
Mercury	< 0.0005	0.0005	mg/L	



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Project ID:	IDOT WO33 East Ave 81.0220509.67	Time Collected:	14:35
Sample ID:	2673V-59-11 (5-10)	Date Received:	02/21/20
Sample No:	20-0971-048	Date Reported:	03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction Method: 1312				
Analysis Date: 02/24/20				
SPLP Metals Extraction Complete				
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 02/28/20 Preparation Date: 02/27/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.057	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.053	0.005	mg/L	
Iron	51.4	0.1	mg/L	
Lead	0.028	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: 02/28/20				
Mercury	< 0.0005	0.0005	mg/L	



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Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 94.7	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 100	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 95.3	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 68.1	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 57.5	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 68.1	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 82.2	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 73.5	35 - 105	
8270C	Phenol-d5 (surr)	%R: 71.4	50 - 100	



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Date Collected: 02/20/20
Time Collected: 14:40
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/24/20				
Total Solids	84.15		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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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Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
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: 02/26/20				
Preparation Date: 02/25/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



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Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/26/20		Preparation Date: 02/25/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



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Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/26/20				Preparation Date: 02/25/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/25/20				Preparation Date: 02/24/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.4	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	50,100	50	mg/kg	
Chromium	16.0	0.5	mg/kg	
Cobalt	11.9	0.5	mg/kg	
Copper	25.5	0.5	mg/kg	
Iron	18,400	5.0	mg/kg	
Lead	40.9	0.5	mg/kg	
Magnesium	23,400	50	mg/kg	
Manganese	331	0.5	mg/kg	
Nickel	30.4	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	980	50	mg/kg	



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Sample No: 20-0971-049	Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/25/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/24/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	19.5	1.0	mg/kg	
Zinc	42.0	1.0	mg/kg	
Total Mercury Analysis Date: 02/25/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/26/20 8:30	Method: 9045D 2004			
pH @ 25°C, 1:2	8.39		Units	
TCLP Extraction Analysis Date: 02/24/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 03/02/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/27/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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 Analysis Date: 02/26/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



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Sample No:	20-0971-049	Date Reported:	03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction Method: 1312				
Analysis Date: 02/24/20				
SPLP Metals Extraction Complete				
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 02/28/20 Preparation Date: 02/27/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.008	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.008	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: 02/28/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-59-11 (10-15)
Sample No: 20-0971-049

Date Collected: 02/20/20
Time Collected: 14:40
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 94.8	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 101.1	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 98.6	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 67.6	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 69.6	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 68.3	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 82.4	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 83.2	35 - 105	
8270C	Phenol-d5 (surr)	%R: 72.8	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-DUP-18
Sample No: 20-0971-054

Date Collected: 02/20/20
Time Collected: 10:00
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/24/20				
Total Solids	83.64		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/27/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO33 East Ave 81.0220509.67
Sample ID: 2673V-DUP-18
Sample No: 20-0971-054

Date Collected: 02/20/20
Time Collected: 10:00
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/27/20				
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: 02/26/20				
Preparation Date: 02/25/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-DUP-18
Sample No: 20-0971-054

Date Collected: 02/20/20
Time Collected: 10:00
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/26/20		Preparation Date: 02/25/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-DUP-18
Sample No: 20-0971-054

Date Collected: 02/20/20
Time Collected: 10:00
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/26/20				Preparation Date: 02/25/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/26/20				Preparation Date: 02/24/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.8	1.0	mg/kg	
Barium	19.0	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	36,900	50	mg/kg	
Chromium	12.9	0.5	mg/kg	
Cobalt	7.3	0.5	mg/kg	
Copper	16.7	0.5	mg/kg	
Iron	15,800	5.0	mg/kg	
Lead	8.2	0.5	mg/kg	
Magnesium	16,600	50	mg/kg	
Manganese	241	0.5	mg/kg	
Nickel	21.2	0.5	mg/kg	
Potassium	1,790	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	770	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-DUP-18
Sample No: 20-0971-054

Date Collected: 02/20/20
Time Collected: 10:00
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/26/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/24/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	16.3	1.0	mg/kg	
Zinc	31.9	1.0	mg/kg	
Total Mercury Analysis Date: 02/25/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/26/20 8:30	Method: 9045D 2004			
pH @ 25°C, 1:2	8.48		Units	
TCLP Extraction Analysis Date: 02/24/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 03/02/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/27/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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 Analysis Date: 02/26/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/20/20
Project ID:	IDOT WO33 East Ave 81.0220509.67	Time Collected:	10:00
Sample ID:	2673V-DUP-18	Date Received:	02/21/20
Sample No:	20-0971-054	Date Reported:	03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/24/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/28/20		Preparation Date: 02/27/20		
Arsenic	0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.113	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.107	0.005	mg/L	
Iron	109	0.1	mg/L	
Lead	0.055	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	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/28/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-DUP-18
Sample No: 20-0971-054

Date Collected: 02/20/20
Time Collected: 10:00
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 90.8	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 77.1	*	90 - 110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 88	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 60.2	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 64	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 67.4	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 78.8	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 80.9	35 - 105	
8270C	Phenol-d5 (surr)	%R: 71.8	50 - 100	



March 06, 2020

Mr. Shane Cuplin
HUFF & HUFF INC.
915 Harger Road
Suite 330
Oak Brook, IL 60523

Project ID: IDOT WO# 33 81.0220509.67
First Environmental File ID: 20-0977
Date Received: February 21, 2020

Dear Mr. Shane Cuplin:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 004324: effective 04/23/2019 through 02/28/2020.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Ryan Gerrick
Project Manager



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-18-02 (0-5)
Sample No: 20-0977-008

Date Collected: 02/21/20
Time Collected: 10:20
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/24/20				
Total Solids	80.92		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/27/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-18-02 (0-5)
Sample No: 20-0977-008

Date Collected: 02/21/20
Time Collected: 10:20
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/27/20				
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: 02/27/20				
Preparation Date: 02/26/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	113	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-18-02 (0-5)
Sample No: 20-0977-008

Date Collected: 02/21/20
Time Collected: 10:20
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/27/20		Preparation Date: 02/26/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-18-02 (0-5)
Sample No: 20-0977-008

Date Collected: 02/21/20
Time Collected: 10:20
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/27/20				Preparation Date: 02/26/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/26/20				Preparation Date: 02/24/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	9.2	1.0	mg/kg	
Barium	109	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	12,700	50	mg/kg	
Chromium	19.8	0.5	mg/kg	
Cobalt	12.3	0.5	mg/kg	
Copper	29.3	0.5	mg/kg	
Iron	26,100	5.0	mg/kg	
Lead	65.7	0.5	mg/kg	
Magnesium	8,790	50	mg/kg	
Manganese	434	0.5	mg/kg	
Nickel	25.3	0.5	mg/kg	
Potassium	1,610	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	971	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-18-02 (0-5)
Sample No: 20-0977-008

Date Collected: 02/21/20
Time Collected: 10:20
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Preparation Method 3050B				
Analysis Date: 02/26/20 Preparation Date: 02/24/20				
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	29.2	1.0	mg/kg	
Zinc	75.0	1.0	mg/kg	
Total Mercury Method: 7471B				
Analysis Date: 02/25/20				
Mercury	0.12	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 02/27/20 8:00				
pH @ 25°C, 1:2	8.57		Units	
TCLP Extraction Method: 1311				
Analysis Date: 02/25/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/03/20 Preparation Date: 02/28/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	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: 02/27/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-18-02 (0-5)
Sample No: 20-0977-008

Date Collected: 02/21/20
Time Collected: 10:20
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/25/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/02/20		Preparation Date: 02/28/20		
Arsenic	0.053	0.010	mg/L	
Barium	1.3	1.0	mg/L	
Beryllium	0.007	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.220	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.280	0.005	mg/L	
Iron	189	0.1	mg/L	
Lead	0.671	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	0.9	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/28/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-18-02 (0-5)
Sample No: 20-0977-008

Date Collected: 02/21/20
Time Collected: 10:20
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 105.2	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 101.5	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 102.5	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 92.5	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 77.2	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 62.4	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 90.2	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 87.5	35 - 105	
8270C	Phenol-d5 (surr)	%R: 73.2	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-18-02 (5-11)
Sample No: 20-0977-009

Date Collected: 02/21/20
Time Collected: 10:55
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/24/20				
Total Solids	83.05		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/27/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-18-02 (5-11)
Sample No: 20-0977-009

Date Collected: 02/21/20
Time Collected: 10:55
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/27/20				
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: 02/27/20				
Preparation Date: 02/26/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-18-02 (5-11)
Sample No: 20-0977-009

Date Collected: 02/21/20
Time Collected: 10:55
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/27/20		Preparation Date: 02/26/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-18-02 (5-11)
Sample No: 20-0977-009

Date Collected: 02/21/20
Time Collected: 10:55
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/27/20		Preparation Date: 02/26/20		
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/26/20		Preparation Date: 02/24/20		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	9.2	1.0	mg/kg	
Barium	51.8	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	39,900	50	mg/kg	
Chromium	17.7	0.5	mg/kg	
Cobalt	16.3	0.5	mg/kg	
Copper	28.8	0.5	mg/kg	
Iron	23,300	5.0	mg/kg	
Lead	14.0	0.5	mg/kg	
Magnesium	22,000	50	mg/kg	
Manganese	508	0.5	mg/kg	
Nickel	39.3	0.5	mg/kg	
Potassium	1,840	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	742	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-18-02 (5-11)
Sample No: 20-0977-009

Date Collected: 02/21/20
Time Collected: 10:55
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/26/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/24/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	21.0	1.0	mg/kg	
Zinc	46.3	1.0	mg/kg	
Total Mercury Analysis Date: 02/25/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/27/20 8:00	Method: 9045D 2004			
pH @ 25°C, 1:2	8.41		Units	
TCLP Extraction Analysis Date: 02/25/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 03/03/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/28/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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 Analysis Date: 02/27/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/21/20
Project ID:	IDOT WO# 33 81.0220509.67	Time Collected:	10:55
Sample ID:	2673V-18-02 (5-11)	Date Received:	02/21/20
Sample No:	20-0977-009	Date Reported:	03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/25/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/02/20		Preparation Date: 02/28/20		
Arsenic	0.036	0.010	mg/L	
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	0.109	0.005	mg/L	
Iron	72.3	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	0.2	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/28/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-18-02 (5-11)
Sample No: 20-0977-009

Date Collected: 02/21/20
Time Collected: 10:55
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 101.6	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 99.8	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 93.3	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 102.7	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 77.7	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 69.3	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 91.4	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 89.7	35 - 105	
8270C	Phenol-d5 (surr)	%R: 74.8	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-19-01 (0-5)
Sample No: 20-0977-012

Date Collected: 02/21/20
Time Collected: 9:55
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/24/20				
Total Solids	80.20		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/27/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-19-01 (0-5)
Sample No: 20-0977-012

Date Collected: 02/21/20
Time Collected: 9:55
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/27/20				
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: 02/27/20				
Preparation Date: 02/26/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-19-01 (0-5)
Sample No: 20-0977-012

Date Collected: 02/21/20
Time Collected: 9:55
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/27/20		Preparation Date: 02/26/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



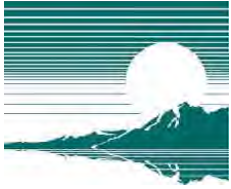
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-19-01 (0-5)
Sample No: 20-0977-012

Date Collected: 02/21/20
Time Collected: 9:55
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/27/20		Preparation Date: 02/26/20		
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/26/20		Preparation Date: 02/24/20		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.1	1.0	mg/kg	
Barium	91.7	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	7,430	50	mg/kg	
Chromium	15.2	0.5	mg/kg	
Cobalt	8.3	0.5	mg/kg	
Copper	24.3	0.5	mg/kg	
Iron	20,400	5.0	mg/kg	
Lead	22.5	0.5	mg/kg	
Magnesium	5,350	50	mg/kg	
Manganese	218	0.5	mg/kg	
Nickel	21.0	0.5	mg/kg	
Potassium	1,020	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	1,990	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-19-01 (0-5)
Sample No: 20-0977-012

Date Collected: 02/21/20
Time Collected: 9:55
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/26/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/24/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	25.3	1.0	mg/kg	
Zinc	46.8	1.0	mg/kg	
Total Mercury Analysis Date: 02/25/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/27/20 8:00	Method: 9045D 2004			
pH @ 25°C, 1:2	8.08		Units	
TCLP Extraction Analysis Date: 02/25/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 03/03/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/28/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.027	0.005	mg/L	
Manganese	3.6	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 Analysis Date: 02/27/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/21/20
Project ID:	IDOT WO# 33 81.0220509.67	Time Collected:	9:55
Sample ID:	2673V-19-01 (0-5)	Date Received:	02/21/20
Sample No:	20-0977-012	Date Reported:	03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/25/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/02/20		Preparation Date: 02/28/20		
Arsenic	0.023	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.086	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.108	0.005	mg/L	
Iron	87.9	0.1	mg/L	
Lead	0.078	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: 02/28/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-19-01 (0-5)
Sample No: 20-0977-012

Date Collected: 02/21/20
Time Collected: 9:55
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 106.3	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 101.7	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 103.8	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 98.8	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 68.3	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 64.5	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 90.6	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 79.7	35 - 105	
8270C	Phenol-d5 (surr)	%R: 69.6	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-19-01 (5-10)
Sample No: 20-0977-013

Date Collected: 02/21/20
Time Collected: 10:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/24/20				
Total Solids	83.28		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/27/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-19-01 (5-10)
Sample No: 20-0977-013

Date Collected: 02/21/20
Time Collected: 10:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/27/20				
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: 02/27/20				
Preparation Date: 02/26/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-19-01 (5-10)
Sample No: 20-0977-013

Date Collected: 02/21/20
Time Collected: 10:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/27/20		Preparation Date: 02/26/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-19-01 (5-10)
Sample No: 20-0977-013

Date Collected: 02/21/20
Time Collected: 10:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/27/20				Preparation Date: 02/26/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/26/20				Preparation Date: 02/24/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.8	1.0	mg/kg	
Barium	10.9	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	13,600	50	mg/kg	
Chromium	9.4	0.5	mg/kg	
Cobalt	6.0	0.5	mg/kg	
Copper	32.1	0.5	mg/kg	
Iron	15,900	5.0	mg/kg	
Lead	14.1	0.5	mg/kg	
Magnesium	9,370	50	mg/kg	
Manganese	163	0.5	mg/kg	
Nickel	24.9	0.5	mg/kg	
Potassium	1,020	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	632	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-19-01 (5-10)
Sample No: 20-0977-013

Date Collected: 02/21/20
Time Collected: 10:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		
Analysis Date: 02/26/20		Preparation Method 3050B		
		Preparation Date: 02/24/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	11.6	1.0	mg/kg	
Zinc	37.4	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/25/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/27/20 8:00				
pH @ 25°C, 1:2	8.36		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/25/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/03/20				Preparation Date: 02/28/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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: 02/27/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/21/20
Project ID:	IDOT WO# 33 81.0220509.67	Time Collected:	10:10
Sample ID:	2673V-19-01 (5-10)	Date Received:	02/21/20
Sample No:	20-0977-013	Date Reported:	03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/25/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/02/20		Preparation Date: 02/28/20		
Arsenic	0.038	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.086	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.133	0.005	mg/L	
Iron	99.7	0.1	mg/L	
Lead	0.044	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: 02/28/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-19-01 (5-10)
Sample No: 20-0977-013

Date Collected: 02/21/20
Time Collected: 10:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 101.6	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 101.1	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 92.1	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 97.8	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 77.2	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 68.3	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 90.8	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 86	35 - 105	
8270C	Phenol-d5 (surr)	%R: 75.6	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-19-02 (0-5)
Sample No: 20-0977-014

Date Collected: 02/21/20
Time Collected: 10:05
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/24/20				
Total Solids	84.44		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/27/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-19-02 (0-5)
Sample No: 20-0977-014

Date Collected: 02/21/20
Time Collected: 10:05
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/27/20				
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: 02/28/20				
Preparation Date: 02/27/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-19-02 (0-5)
Sample No: 20-0977-014

Date Collected: 02/21/20
Time Collected: 10:05
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/28/20		Preparation Date: 02/27/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-19-02 (0-5)
Sample No: 20-0977-014

Date Collected: 02/21/20
Time Collected: 10:05
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/28/20				Preparation Date: 02/27/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/26/20				Preparation Date: 02/24/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	10.1	1.0	mg/kg	
Barium	25.7	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	27,300	50	mg/kg	
Chromium	8.5	0.5	mg/kg	
Cobalt	8.5	0.5	mg/kg	
Copper	33.1	0.5	mg/kg	
Iron	16,900	5.0	mg/kg	
Lead	18.3	0.5	mg/kg	
Magnesium	17,000	50	mg/kg	
Manganese	312	0.5	mg/kg	
Nickel	24.1	0.5	mg/kg	
Potassium	737	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	669	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-19-02 (0-5)
Sample No: 20-0977-014

Date Collected: 02/21/20
Time Collected: 10:05
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		
Analysis Date: 02/26/20		Preparation Method 3050B		
		Preparation Date: 02/24/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	12.2	1.0	mg/kg	
Zinc	41.4	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/25/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/27/20 8:00				
pH @ 25°C, 1:2	8.63		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/25/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/03/20				Preparation Date: 02/28/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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: 02/27/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.	Date Collected: 02/21/20
Project ID: IDOT WO# 33 81.0220509.67	Time Collected: 10:05
Sample ID: 2673V-19-02 (0-5)	Date Received: 02/21/20
Sample No: 20-0977-014	Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/25/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/02/20		Preparation Date: 02/28/20		
Arsenic	0.032	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.036	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.104	0.005	mg/L	
Iron	61.4	0.1	mg/L	
Lead	0.057	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	0.2	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/28/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-19-02 (0-5)
Sample No: 20-0977-014

Date Collected: 02/21/20
Time Collected: 10:05
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 105.6	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 101.1	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 103.9	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 74.7	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 75.7	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 66.1	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 87.6	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 86.1	35 - 105	
8270C	Phenol-d5 (surr)	%R: 72.4	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-19-02 (5-10)
Sample No: 20-0977-015

Date Collected: 02/21/20
Time Collected: 10:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/24/20				
Total Solids	81.86		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/27/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-19-02 (5-10)
Sample No: 20-0977-015

Date Collected: 02/21/20
Time Collected: 10:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/27/20				
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: 02/28/20				
Preparation Date: 02/27/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-19-02 (5-10)
Sample No: 20-0977-015

Date Collected: 02/21/20
Time Collected: 10:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/28/20		Preparation Date: 02/27/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-19-02 (5-10)
Sample No: 20-0977-015

Date Collected: 02/21/20
Time Collected: 10:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/28/20				Preparation Date: 02/27/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/26/20				Preparation Date: 02/24/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.8	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	41,500	50	mg/kg	
Chromium	14.7	0.5	mg/kg	
Cobalt	9.5	0.5	mg/kg	
Copper	19.0	0.5	mg/kg	
Iron	17,300	5.0	mg/kg	
Lead	10.2	0.5	mg/kg	
Magnesium	17,800	50	mg/kg	
Manganese	281	0.5	mg/kg	
Nickel	23.9	0.5	mg/kg	
Potassium	1,760	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	428	50	mg/kg	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/21/20
Project ID:	IDOT WO# 33 81.0220509.67	Time Collected:	10:10
Sample ID:	2673V-19-02 (5-10)	Date Received:	02/21/20
Sample No:	20-0977-015	Date Reported:	03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		
Analysis Date: 02/26/20		Preparation Method 3050B		
		Preparation Date: 02/24/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	18.8	1.0	mg/kg	
Zinc	37.1	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/25/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/27/20 8:00				
pH @ 25°C, 1:2	8.22		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/25/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/03/20				Preparation Date: 02/28/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	2.4	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: 02/27/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.	Date Collected: 02/21/20
Project ID: IDOT WO# 33 81.0220509.67	Time Collected: 10:10
Sample ID: 2673V-19-02 (5-10)	Date Received: 02/21/20
Sample No: 20-0977-015	Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/25/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/02/20		Preparation Date: 02/28/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.006	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	4.0	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: 02/28/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-19-02 (5-10)
Sample No: 20-0977-015

Date Collected: 02/21/20
Time Collected: 10:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 102.4	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 100.9	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 94.1	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 72.1	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 66.8	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 69.6	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 86.4	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 82.7	35 - 105	
8270C	Phenol-d5 (surr)	%R: 73.8	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-19-02 (10-13)
Sample No: 20-0977-016

Date Collected: 02/21/20
Time Collected: 10:15
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/24/20				
Total Solids	82.46		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/27/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-19-02 (10-13)
Sample No: 20-0977-016

Date Collected: 02/21/20
Time Collected: 10:15
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/27/20				
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: 02/28/20				
Preparation Date: 02/27/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-19-02 (10-13)
Sample No: 20-0977-016

Date Collected: 02/21/20
Time Collected: 10:15
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/28/20		Preparation Date: 02/27/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-19-02 (10-13)
Sample No: 20-0977-016

Date Collected: 02/21/20
Time Collected: 10:15
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/28/20				Preparation Date: 02/27/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/28/20				Preparation Date: 02/26/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.1	1.0	mg/kg	
Barium	40.3	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	73,200	50	mg/kg	
Chromium	25.0	0.5	mg/kg	
Cobalt	6.8	0.5	mg/kg	
Copper	27.2	0.5	mg/kg	
Iron	20,300	5.0	mg/kg	
Lead	26.5	0.5	mg/kg	
Magnesium	36,100	50	mg/kg	
Manganese	267	0.5	mg/kg	
Nickel	26.4	0.5	mg/kg	
Potassium	2,730	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	667	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC. **Date Collected:** 02/21/20
Project ID: IDOT WO# 33 81.0220509.67 **Time Collected:** 10:15
Sample ID: 2673V-19-02 (10-13) **Date Received:** 02/21/20
Sample No: 20-0977-016 **Date Reported:** 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Preparation Method 3050B				
Analysis Date: 02/28/20 Preparation Date: 02/26/20				
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	24.9	1.0	mg/kg	
Zinc	64.7	1.0	mg/kg	
Total Mercury Method: 7471B				
Analysis Date: 02/25/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 02/27/20 8:00				
pH @ 25°C, 1:2	8.12		Units	
TCLP Extraction Method: 1311				
Analysis Date: 02/25/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/03/20 Preparation Date: 02/28/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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: 02/27/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/21/20
Project ID:	IDOT WO# 33 81.0220509.67	Time Collected:	10:15
Sample ID:	2673V-19-02 (10-13)	Date Received:	02/21/20
Sample No:	20-0977-016	Date Reported:	03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/25/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/02/20		Preparation Date: 02/28/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	1.4	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: 02/28/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-19-02 (10-13)
Sample No: 20-0977-016

Date Collected: 02/21/20
Time Collected: 10:15
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 105	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 101.5	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 102.3	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 69.2	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 68.3	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 64.7	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 84.8	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 79.8	35 - 105	
8270C	Phenol-d5 (surr)	%R: 72.3	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-19-04 (0-5)
Sample No: 20-0977-020

Date Collected: 02/21/20
Time Collected: 10:35
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/24/20				
Total Solids	78.68		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/27/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-19-04 (0-5)
Sample No: 20-0977-020

Date Collected: 02/21/20
Time Collected: 10:35
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/27/20				
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: 02/28/20				
Preparation Date: 02/27/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-19-04 (0-5)
Sample No: 20-0977-020

Date Collected: 02/21/20
Time Collected: 10:35
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/28/20		Preparation Date: 02/27/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-19-04 (0-5)
Sample No: 20-0977-020

Date Collected: 02/21/20
Time Collected: 10:35
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/28/20				Preparation Date: 02/27/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/28/20				Preparation Date: 02/26/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.3	1.0	mg/kg	
Barium	120	0.5	mg/kg	
Beryllium	0.9	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	11,900	50	mg/kg	
Chromium	23.8	0.5	mg/kg	
Cobalt	10.6	0.5	mg/kg	
Copper	32.7	0.5	mg/kg	
Iron	25,900	5.0	mg/kg	
Lead	18.4	0.5	mg/kg	
Magnesium	11,000	50	mg/kg	
Manganese	339	0.5	mg/kg	
Nickel	34.0	0.5	mg/kg	
Potassium	1,860	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	3,100	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-19-04 (0-5)
Sample No: 20-0977-020

Date Collected: 02/21/20
Time Collected: 10:35
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		
Analysis Date: 02/28/20		Preparation Method 3050B		
		Preparation Date: 02/26/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	31.1	1.0	mg/kg	
Zinc	52.1	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/26/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/27/20 8:00				
pH @ 25°C, 1:2	8.82		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/25/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/03/20				Preparation Date: 02/28/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	0.006	0.005	mg/L	
Manganese	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: 02/27/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/21/20
Project ID:	IDOT WO# 33 81.0220509.67	Time Collected:	10:35
Sample ID:	2673V-19-04 (0-5)	Date Received:	02/21/20
Sample No:	20-0977-020	Date Reported:	03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/25/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/02/20		Preparation Date: 02/28/20		
Arsenic	0.039	0.010	mg/L	
Barium	1.5	1.0	mg/L	
Beryllium	0.009	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.230	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.262	0.005	mg/L	
Iron	214	0.1	mg/L	
Lead	0.126	0.005	mg/L	
Manganese	2.1	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	0.4	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/28/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-19-04 (0-5)
Sample No: 20-0977-020

Date Collected: 02/21/20
Time Collected: 10:35
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 106.2	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 101.6	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 105	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 73.5	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 60.3	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 66.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 87	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 68	35 - 105	
8270C	Phenol-d5 (surr)	%R: 70.7	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-19-04 (5-10)
Sample No: 20-0977-021

Date Collected: 02/21/20
Time Collected: 10:40
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/24/20				
Total Solids	81.64		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/27/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-19-04 (5-10)
Sample No: 20-0977-021

Date Collected: 02/21/20
Time Collected: 10:40
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/27/20				
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: 02/28/20				
Preparation Date: 02/27/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-19-04 (5-10)
Sample No: 20-0977-021

Date Collected: 02/21/20
Time Collected: 10:40
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/28/20		Preparation Date: 02/27/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-19-04 (5-10)
Sample No: 20-0977-021

Date Collected: 02/21/20
Time Collected: 10:40
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/28/20				Preparation Date: 02/27/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/28/20				Preparation Date: 02/26/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	10.1	1.0	mg/kg	
Barium	102	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	30,400	50	mg/kg	
Chromium	20.3	0.5	mg/kg	
Cobalt	16.2	0.5	mg/kg	
Copper	38.4	0.5	mg/kg	
Iron	26,200	5.0	mg/kg	
Lead	20.4	0.5	mg/kg	
Magnesium	19,700	50	mg/kg	
Manganese	402	0.5	mg/kg	
Nickel	39.6	0.5	mg/kg	
Potassium	2,090	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	2,050	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-19-04 (5-10)
Sample No: 20-0977-021

Date Collected: 02/21/20
Time Collected: 10:40
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/25/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/03/20		Preparation Date: 03/02/20		
Arsenic	0.027	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.059	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.104	0.005	mg/L	
Iron	73.7	0.1	mg/L	
Lead	0.035	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: 02/28/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-19-04 (5-10)
Sample No: 20-0977-021

Date Collected: 02/21/20
Time Collected: 10:40
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 106.1	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 101.4	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 99.8	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 74.7	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 65.9	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 70.6	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 87.2	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 83.2	35 - 105	
8270C	Phenol-d5 (surr)	%R: 74.3	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-DUP-02
Sample No: 20-0977-106

Date Collected: 02/21/20
Time Collected: 9:12
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	83.46		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/03/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-DUP-02
Sample No: 20-0977-106

Date Collected: 02/21/20
Time Collected: 9:12
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/03/20				
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: 03/04/20				
Preparation Date: 03/02/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-DUP-02
Sample No: 20-0977-106

Date Collected: 02/21/20
Time Collected: 9:12
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/04/20		Preparation Date: 03/02/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-DUP-02
Sample No: 20-0977-106

Date Collected: 02/21/20
Time Collected: 9:12
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/04/20				Preparation Date: 03/02/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/02/20				Preparation Date: 03/02/20
Antimony	1.3	1.0	mg/kg	
Arsenic	18.9	1.0	mg/kg	
Barium	50.2	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	7,800	50	mg/kg	
Chromium	14.7	0.5	mg/kg	
Cobalt	12.8	0.5	mg/kg	
Copper	67.9	0.5	mg/kg	
Iron	30,300	5.0	mg/kg	
Lead	28.6	0.5	mg/kg	
Magnesium	7,680	50	mg/kg	
Manganese	199	0.5	mg/kg	
Nickel	40.5	0.5	mg/kg	
Potassium	1,890	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	1,540	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/21/20

Project ID: IDOT WO# 33 81.0220509.67

Time Collected: 9:12

Sample ID: 2673V-DUP-02

Date Received: 02/21/20

Sample No: 20-0977-106

Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 03/02/20			Preparation Date: 03/02/20	
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	22.3	1.0	mg/kg	
Zinc	66.4	1.0	mg/kg	
Total Mercury	Method: 7471B			
Analysis Date: 03/03/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2	Method: 9045D 2004			
Analysis Date: 03/03/20 9:15				
pH @ 25°C, 1:2	8.78		Units	
TCLP Extraction	Method: 1311			
Analysis Date: 02/27/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311	Method: 6010C	Preparation Method 3010A		
Analysis Date: 03/05/20			Preparation Date: 03/04/20	
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	5.1	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: 03/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-DUP-02
Sample No: 20-0977-106

Date Collected: 02/21/20
Time Collected: 9:12
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/27/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/05/20		Preparation Date: 03/03/20		
Arsenic	0.057	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.005	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.120	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.163	0.005	mg/L	
Iron	142	0.1	mg/L	
Lead	0.063	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	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 03/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-DUP-02
Sample No: 20-0977-106

Date Collected: 02/21/20
Time Collected: 9:12
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 97	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 95.9	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 107.8	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 77.6	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 68	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 63.7	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 85.7	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 79.1	35 - 105	
8270C	Phenol-d5 (surr)	%R: 69.7	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-19-04 (10-13)
Sample No: 20-0977-022

Date Collected: 02/21/20
Time Collected: 10:45
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/24/20				
Total Solids	81.94		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/27/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-19-04 (10-13)
Sample No: 20-0977-022

Date Collected: 02/21/20
Time Collected: 10:45
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/27/20				
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: 02/28/20				
Preparation Date: 02/27/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-19-04 (10-13)
Sample No: 20-0977-022

Date Collected: 02/21/20
Time Collected: 10:45
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/28/20		Preparation Date: 02/27/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-19-04 (10-13)
Sample No: 20-0977-022

Date Collected: 02/21/20
Time Collected: 10:45
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/28/20		Preparation Date: 02/27/20		
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/28/20		Preparation Date: 02/26/20		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.9	1.0	mg/kg	
Barium	41.8	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	55,300	50	mg/kg	
Chromium	20.0	0.5	mg/kg	
Cobalt	9.9	0.5	mg/kg	
Copper	24.2	0.5	mg/kg	
Iron	22,300	5.0	mg/kg	
Lead	10.9	0.5	mg/kg	
Magnesium	24,000	50	mg/kg	
Manganese	280	0.5	mg/kg	
Nickel	30.3	0.5	mg/kg	
Potassium	2,680	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	1,420	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-19-04 (10-13)
Sample No: 20-0977-022

Date Collected: 02/21/20
Time Collected: 10:45
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/28/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/26/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	25.3	1.0	mg/kg	
Zinc	49.4	1.0	mg/kg	
Total Mercury Analysis Date: 02/26/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/28/20 16:00	Method: 9045D 2004			
pH @ 25°C, 1:2	7.66		Units	
TCLP Extraction Analysis Date: 02/25/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 03/03/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/28/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	1.2	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 Analysis Date: 02/27/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/21/20
Project ID:	IDOT WO# 33 81.0220509.67	Time Collected:	10:45
Sample ID:	2673V-19-04 (10-13)	Date Received:	02/21/20
Sample No:	20-0977-022	Date Reported:	03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/25/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/02/20		Preparation Date: 02/28/20		
Arsenic	0.021	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.074	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.068	0.005	mg/L	
Iron	72.2	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	0.2	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/28/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-19-04 (10-13)
Sample No: 20-0977-022

Date Collected: 02/21/20
Time Collected: 10:45
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 105.4	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 101.6	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 106.5	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 71.6	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 66.6	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 68.2	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 85.3	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 82.7	35 - 105	
8270C	Phenol-d5 (surr)	%R: 73.2	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-20-03 (0-5)
Sample No: 20-0977-027

Date Collected: 02/21/20
Time Collected: 9:30
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	84.82		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/27/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-20-03 (0-5)
Sample No: 20-0977-027

Date Collected: 02/21/20
Time Collected: 9:30
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/27/20				
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: 02/28/20				
Preparation Date: 02/27/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-20-03 (0-5)
Sample No: 20-0977-027

Date Collected: 02/21/20
Time Collected: 9:30
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/28/20		Preparation Date: 02/27/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-20-03 (0-5)
Sample No: 20-0977-027

Date Collected: 02/21/20
Time Collected: 9:30
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/28/20				Preparation Date: 02/27/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/28/20				Preparation Date: 02/26/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.4	1.0	mg/kg	
Barium	48.7	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	49,600	50	mg/kg	
Chromium	15.5	0.5	mg/kg	
Cobalt	15.5	0.5	mg/kg	
Copper	31.9	0.5	mg/kg	
Iron	21,100	5.0	mg/kg	
Lead	14.9	0.5	mg/kg	
Magnesium	25,400	50	mg/kg	
Manganese	529	0.5	mg/kg	
Nickel	36.8	0.5	mg/kg	
Potassium	1,970	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	1,680	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC. **Date Collected:** 02/21/20
Project ID: IDOT WO# 33 81.0220509.67 **Time Collected:** 9:30
Sample ID: 2673V-20-03 (0-5) **Date Received:** 02/21/20
Sample No: 20-0977-027 **Date Reported:** 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Preparation Method 3050B				
Analysis Date: 02/28/20 Preparation Date: 02/26/20				
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	20.4	1.0	mg/kg	
Zinc	49.0	1.0	mg/kg	
Total Mercury Method: 7471B				
Analysis Date: 02/26/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 02/28/20 16:00				
pH @ 25°C, 1:2	8.42		Units	
TCLP Extraction Method: 1311				
Analysis Date: 02/25/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/03/20 Preparation Date: 02/28/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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: 02/27/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-20-03 (0-5)
Sample No: 20-0977-027

Date Collected: 02/21/20
Time Collected: 9:30
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/25/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/02/20		Preparation Date: 02/28/20		
Arsenic	0.066	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.115	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.206	0.005	mg/L	
Iron	141	0.1	mg/L	
Lead	0.060	0.005	mg/L	
Manganese	0.6	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: 03/02/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-20-03 (0-5)
Sample No: 20-0977-027

Date Collected: 02/21/20
Time Collected: 9:30
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 93.3	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 100	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 99	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 73	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 60.7	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 63.6	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 84.7	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 75.8	35 - 105	
8270C	Phenol-d5 (surr)	%R: 66.1	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-20-03 (5-10)
Sample No: 20-0977-028

Date Collected: 02/21/20
Time Collected: 9:35
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	82.50		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/27/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-20-03 (5-10)
Sample No: 20-0977-028

Date Collected: 02/21/20
Time Collected: 9:35
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/27/20				
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: 02/28/20				
Preparation Date: 02/27/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-20-03 (5-10)
Sample No: 20-0977-028

Date Collected: 02/21/20
Time Collected: 9:35
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/28/20		Preparation Date: 02/27/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-20-03 (5-10)
Sample No: 20-0977-028

Date Collected: 02/21/20
Time Collected: 9:35
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/28/20				Preparation Date: 02/27/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/28/20				Preparation Date: 02/26/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.5	1.0	mg/kg	
Barium	34.7	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	51,300	50	mg/kg	
Chromium	19.1	0.5	mg/kg	
Cobalt	6.1	0.5	mg/kg	
Copper	21.4	0.5	mg/kg	
Iron	19,600	5.0	mg/kg	
Lead	10.3	0.5	mg/kg	
Magnesium	22,100	50	mg/kg	
Manganese	231	0.5	mg/kg	
Nickel	24.2	0.5	mg/kg	
Potassium	2,610	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	923	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-20-03 (5-10)
Sample No: 20-0977-028

Date Collected: 02/21/20
Time Collected: 9:35
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		
Analysis Date: 02/28/20		Preparation Method 3050B		
		Preparation Date: 02/26/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	23.8	1.0	mg/kg	
Zinc	46.1	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/26/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/28/20 16:00				
pH @ 25°C, 1:2	8.54		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/25/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 03/04/20		Preparation Method 3010A		
		Preparation Date: 03/02/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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: 02/27/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-20-03 (5-10)
Sample No: 20-0977-028

Date Collected: 02/21/20
Time Collected: 9:35
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/25/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/03/20		Preparation Date: 03/02/20		
Arsenic	0.013	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.056	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.058	0.005	mg/L	
Iron	57.4	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	0.1	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 03/02/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-20-03 (5-10)
Sample No: 20-0977-028

Date Collected: 02/21/20
Time Collected: 9:35
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 91.8	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 99.6	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 93.7	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 73.9	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 63.1	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 67.4	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 84	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 80	35 - 105	
8270C	Phenol-d5 (surr)	%R: 69.6	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-33-02 (0-5)
Sample No: 20-0977-037

Date Collected: 02/21/20
Time Collected: 10:30
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	83.50		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/28/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-33-02 (0-5)
Sample No: 20-0977-037

Date Collected: 02/21/20
Time Collected: 10:30
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/28/20				
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: 02/28/20				
Preparation Date: 02/28/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-33-02 (0-5)
Sample No: 20-0977-037

Date Collected: 02/21/20
Time Collected: 10:30
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/28/20		Preparation Date: 02/28/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-33-02 (0-5)
Sample No: 20-0977-037

Date Collected: 02/21/20
Time Collected: 10:30
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/28/20				Preparation Date: 02/28/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/27/20				Preparation Date: 02/26/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.5	1.0	mg/kg	
Barium	76.1	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	60,800	50	mg/kg	
Chromium	21.2	0.5	mg/kg	
Cobalt	10.1	0.5	mg/kg	
Copper	24.1	0.5	mg/kg	
Iron	22,400	5.0	mg/kg	
Lead	11.0	0.5	mg/kg	
Magnesium	23,700	50	mg/kg	
Manganese	341	0.5	mg/kg	
Nickel	29.8	0.5	mg/kg	
Potassium	2,160	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	304	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-33-02 (0-5)
Sample No: 20-0977-037

Date Collected: 02/21/20
Time Collected: 10:30
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Preparation Method 3050B				
Analysis Date: 02/27/20 Preparation Date: 02/26/20				
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	27.0	1.0	mg/kg	
Zinc	43.1	1.0	mg/kg	
Total Mercury Method: 7471B				
Analysis Date: 02/26/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 02/28/20 16:00				
pH @ 25°C, 1:2	8.48		Units	
TCLP Extraction Method: 1311				
Analysis Date: 02/25/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/02/20 Preparation Date: 03/02/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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: 02/27/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/21/20
Project ID:	IDOT WO# 33 81.0220509.67	Time Collected:	10:30
Sample ID:	2673V-33-02 (0-5)	Date Received:	02/21/20
Sample No:	20-0977-037	Date Reported:	03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction Method: 1312				
Analysis Date: 02/25/20				
SPLP Metals Extraction Complete				
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/03/20 Preparation Date: 03/02/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.006	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.005	0.005	mg/L	
Iron	4.0	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: 03/02/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-33-02 (0-5)
Sample No: 20-0977-037

Date Collected: 02/21/20
Time Collected: 10:30
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 107.8	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 101.7	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 104.2	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 84.1	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 71	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 64	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 88.7	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 81.1	35 - 105	
8270C	Phenol-d5 (surr)	%R: 68.9	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-33-02 (5-10)
Sample No: 20-0977-038

Date Collected: 02/21/20
Time Collected: 10:35
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	83.74		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/27/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-33-02 (5-10)
Sample No: 20-0977-038

Date Collected: 02/21/20
Time Collected: 10:35
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/27/20				
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: 02/28/20				
Preparation Date: 02/28/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-33-02 (5-10)
Sample No: 20-0977-038

Date Collected: 02/21/20
Time Collected: 10:35
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/28/20		Preparation Date: 02/28/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-33-02 (5-10)
Sample No: 20-0977-038

Date Collected: 02/21/20
Time Collected: 10:35
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/28/20				Preparation Date: 02/28/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/27/20				Preparation Date: 02/26/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.5	1.0	mg/kg	
Barium	79.7	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	58,100	50	mg/kg	
Chromium	21.7	0.5	mg/kg	
Cobalt	15.7	0.5	mg/kg	
Copper	31.5	0.5	mg/kg	
Iron	23,800	5.0	mg/kg	
Lead	12.3	0.5	mg/kg	
Magnesium	24,200	50	mg/kg	
Manganese	373	0.5	mg/kg	
Nickel	31.8	0.5	mg/kg	
Potassium	2,780	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	410	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-33-02 (5-10)
Sample No: 20-0977-038

Date Collected: 02/21/20
Time Collected: 10:35
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/27/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/26/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	27.2	1.0	mg/kg	
Zinc	48.9	1.0	mg/kg	
Total Mercury Analysis Date: 02/27/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/28/20 16:00	Method: 9045D 2004			
pH @ 25°C, 1:2	8.45		Units	
TCLP Extraction Analysis Date: 02/25/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 03/02/20	Method: 6010C	Preparation Method 3010A Preparation Date: 03/02/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.5	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 Analysis Date: 02/27/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/21/20
Project ID:	IDOT WO# 33 81.0220509.67	Time Collected:	10:35
Sample ID:	2673V-33-02 (5-10)	Date Received:	02/21/20
Sample No:	20-0977-038	Date Reported:	03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/25/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/03/20		Preparation Date: 03/02/20		
Arsenic	0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.048	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.052	0.005	mg/L	
Iron	50.0	0.1	mg/L	
Lead	0.021	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: 03/02/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-33-02 (5-10)
Sample No: 20-0977-038

Date Collected: 02/21/20
Time Collected: 10:35
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 92.1	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 98.7	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 95.5	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 80.8	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 70.9	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 64.2	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 85.8	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 80.2	35 - 105	
8270C	Phenol-d5 (surr)	%R: 68.8	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-33-04 (0-5)
Sample No: 20-0977-041

Date Collected: 02/21/20
Time Collected: 11:00
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	77.08		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/28/20				
Acetone	793	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-33-04 (0-5)
Sample No: 20-0977-041

Date Collected: 02/21/20
Time Collected: 11:00
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/28/20				
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: 02/28/20				
Preparation Date: 02/28/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-33-04 (0-5)
Sample No: 20-0977-041

Date Collected: 02/21/20
Time Collected: 11:00
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/28/20		Preparation Date: 02/28/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-33-04 (0-5)
Sample No: 20-0977-041

Date Collected: 02/21/20
Time Collected: 11:00
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/28/20		Preparation Date: 02/28/20		
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/27/20		Preparation Date: 02/26/20		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	10.5	1.0	mg/kg	
Barium	115	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	24,600	50	mg/kg	
Chromium	23.0	0.5	mg/kg	
Cobalt	11.3	0.5	mg/kg	
Copper	32.7	0.5	mg/kg	
Iron	27,400	5.0	mg/kg	
Lead	53.5	0.5	mg/kg	
Magnesium	14,000	50	mg/kg	
Manganese	476	0.5	mg/kg	
Nickel	31.1	0.5	mg/kg	
Potassium	2,030	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	115	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-33-04 (0-5)
Sample No: 20-0977-041

Date Collected: 02/21/20
Time Collected: 11:00
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Preparation Method 3050B				
Analysis Date: 02/27/20 Preparation Date: 02/26/20				
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	33.3	1.0	mg/kg	
Zinc	78.1	1.0	mg/kg	
Total Mercury Method: 7471B				
Analysis Date: 02/27/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 03/02/20 9:30				
pH @ 25°C, 1:2	7.52		Units	
TCLP Extraction Method: 1311				
Analysis Date: 02/26/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/03/20 Preparation Date: 03/02/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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: 02/28/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.	Date Collected: 02/21/20
Project ID: IDOT WO# 33 81.0220509.67	Time Collected: 11:00
Sample ID: 2673V-33-04 (0-5)	Date Received: 02/21/20
Sample No: 20-0977-041	Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/26/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/03/20		Preparation Date: 03/02/20		
Arsenic	0.012	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.071	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.070	0.005	mg/L	
Iron	74.9	0.1	mg/L	
Lead	0.045	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: 03/02/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-33-04 (0-5)
Sample No: 20-0977-041

Date Collected: 02/21/20
Time Collected: 11:00
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 106.2	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 101.6	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 104.9	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 85.1	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 71.2	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 63.3	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 86.7	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 81.3	35 - 105	
8270C	Phenol-d5 (surr)	%R: 68.2	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-33-04 (5-10)
Sample No: 20-0977-042

Date Collected: 02/21/20
Time Collected: 11:05
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	83.13		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/28/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-33-04 (5-10)
Sample No: 20-0977-042

Date Collected: 02/21/20
Time Collected: 11:05
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/28/20				
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: 02/28/20				
Preparation Date: 02/28/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-33-04 (5-10)
Sample No: 20-0977-042

Date Collected: 02/21/20
Time Collected: 11:05
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/28/20		Preparation Date: 02/28/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



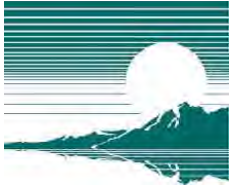
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-33-04 (5-10)
Sample No: 20-0977-042

Date Collected: 02/21/20
Time Collected: 11:05
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/28/20				Preparation Date: 02/28/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/27/20				Preparation Date: 02/26/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.8	1.0	mg/kg	
Barium	91.1	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	54,500	50	mg/kg	
Chromium	21.1	0.5	mg/kg	
Cobalt	12.3	0.5	mg/kg	
Copper	23.8	0.5	mg/kg	
Iron	22,500	5.0	mg/kg	
Lead	10.1	0.5	mg/kg	
Magnesium	23,900	50	mg/kg	
Manganese	364	0.5	mg/kg	
Nickel	32.5	0.5	mg/kg	
Potassium	2,560	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	425	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-33-04 (5-10)
Sample No: 20-0977-042

Date Collected: 02/21/20
Time Collected: 11:05
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/27/20		Preparation Date: 02/26/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	25.6	1.0	mg/kg	
Zinc	48.9	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/27/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 03/02/20 9:30				
pH @ 25°C, 1:2	8.46		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/26/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/02/20		Preparation Date: 03/02/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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: 02/28/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-33-04 (5-10)
Sample No: 20-0977-042

Date Collected: 02/21/20
Time Collected: 11:05
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction Method: 1312				
Analysis Date: 02/26/20				
SPLP Metals Extraction Complete				
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/03/20 Preparation Date: 03/02/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.010	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.010	0.005	mg/L	
Iron	8.1	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: 03/02/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-33-04 (5-10)
Sample No: 20-0977-042

Date Collected: 02/21/20
Time Collected: 11:05
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 107.8	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 101.4	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 103.1	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 84	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 64.9	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 63.9	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 86.2	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 79.5	35 - 105	
8270C	Phenol-d5 (surr)	%R: 67.4	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-33-04 (10-15)
Sample No: 20-0977-043

Date Collected: 02/21/20
Time Collected: 11:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	82.35		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/28/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-33-04 (10-15)
Sample No: 20-0977-043

Date Collected: 02/21/20
Time Collected: 11:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/28/20				
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: 02/28/20				
Preparation Date: 02/28/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-33-04 (10-15)
Sample No: 20-0977-043

Date Collected: 02/21/20
Time Collected: 11:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/28/20		Preparation Date: 02/28/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-33-04 (10-15)
Sample No: 20-0977-043

Date Collected: 02/21/20
Time Collected: 11:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/28/20				Preparation Date: 02/28/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/27/20				Preparation Date: 02/26/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.9	1.0	mg/kg	
Barium	41.9	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	54,500	50	mg/kg	
Chromium	19.9	0.5	mg/kg	
Cobalt	7.2	0.5	mg/kg	
Copper	21.1	0.5	mg/kg	
Iron	20,600	5.0	mg/kg	
Lead	10.3	0.5	mg/kg	
Magnesium	23,400	50	mg/kg	
Manganese	249	0.5	mg/kg	
Nickel	25.1	0.5	mg/kg	
Potassium	2,610	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	265	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-33-04 (10-15)
Sample No: 20-0977-043

Date Collected: 02/21/20
Time Collected: 11:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Preparation Method 3050B				
Analysis Date: 02/27/20 Preparation Date: 02/26/20				
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	23.7	1.0	mg/kg	
Zinc	45.8	1.0	mg/kg	
Total Mercury Method: 7471B				
Analysis Date: 02/27/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 03/02/20 9:30				
pH @ 25°C, 1:2	8.54		Units	
TCLP Extraction Method: 1311				
Analysis Date: 02/26/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/02/20 Preparation Date: 03/02/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.9	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: 02/28/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-33-04 (10-15)
Sample No: 20-0977-043

Date Collected: 02/21/20
Time Collected: 11:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/26/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/03/20		Preparation Date: 03/02/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	1.8	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: 03/02/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-33-04 (10-15)
Sample No: 20-0977-043

Date Collected: 02/21/20
Time Collected: 11:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 106.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 101.7	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 107.6	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 77.9	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 70.9	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 65	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 84.6	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 81.6	35 - 105	
8270C	Phenol-d5 (surr)	%R: 69	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-37-02 (0-5)
Sample No: 20-0977-050

Date Collected: 02/21/20
Time Collected: 11:17
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	74.35		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/27/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-37-02 (0-5)
Sample No: 20-0977-050

Date Collected: 02/21/20
Time Collected: 11:17
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/27/20				
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: 03/02/20				
Preparation Date: 02/28/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	933	330	ug/kg	
Benzo(a)pyrene	1,040	90	ug/kg	
Benzo(b)fluoranthene	1,080	330	ug/kg	
Benzo(k)fluoranthene	1,050	330	ug/kg	
Benzo(ghi)perylene	636	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	1,100	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-37-02 (0-5)
Sample No: 20-0977-050

Date Collected: 02/21/20
Time Collected: 11:17
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/02/20		Preparation Date: 02/28/20		
Dibenzo(a,h)anthracene	148	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	2,370	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	695	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-37-02 (0-5)
Sample No: 20-0977-050

Date Collected: 02/21/20
Time Collected: 11:17
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/02/20				Preparation Date: 02/28/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	1,210	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	1,800	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/27/20				Preparation Date: 02/26/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.2	1.0	mg/kg	
Barium	122	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	15,900	50	mg/kg	
Chromium	26.3	0.5	mg/kg	
Cobalt	9.8	0.5	mg/kg	
Copper	28.4	0.5	mg/kg	
Iron	22,300	5.0	mg/kg	
Lead	57.8	0.5	mg/kg	
Magnesium	8,920	50	mg/kg	
Manganese	435	0.5	mg/kg	
Nickel	22.8	0.5	mg/kg	
Potassium	2,380	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	104	50	mg/kg	



Analytical Report

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Sample ID: 2673V-37-02 (0-5)
Sample No: 20-0977-050

Date Collected: 02/21/20
Time Collected: 11:17
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/27/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/26/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	31.9	1.0	mg/kg	
Zinc	88.6	1.0	mg/kg	
Total Mercury Analysis Date: 02/27/20	Method: 7471B			
Mercury	0.06	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 03/02/20 9:30	Method: 9045D 2004			
pH @ 25°C, 1:2	8.02		Units	
TCLP Extraction Analysis Date: 02/26/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 03/03/20	Method: 6010C	Preparation Method 3010A Preparation Date: 03/02/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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 Analysis Date: 02/28/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-37-02 (0-5)
Sample No: 20-0977-050

Date Collected: 02/21/20
Time Collected: 11:17
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/26/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/03/20		Preparation Date: 03/02/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.020	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.016	0.005	mg/L	
Iron	16.6	0.1	mg/L	
Lead	0.018	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: 03/02/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-37-02 (0-5)
Sample No: 20-0977-050

Date Collected: 02/21/20
Time Collected: 11:17
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 90.8	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 98.8	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 93.2	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 96.2	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 78.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 63.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 90.4	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 86.1	35 - 105	
8270C	Phenol-d5 (surr)	%R: 74.3	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-37-02 (5-10)
Sample No: 20-0977-051

Date Collected: 02/21/20
Time Collected: 11:18
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	82.79		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/27/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-37-02 (5-10)
Sample No: 20-0977-051

Date Collected: 02/21/20
Time Collected: 11:18
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/27/20				
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: 03/02/20				
Preparation Date: 02/28/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-37-02 (5-10)
Sample No: 20-0977-051

Date Collected: 02/21/20
Time Collected: 11:18
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/02/20		Preparation Date: 02/28/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-37-02 (5-10)
Sample No: 20-0977-051

Date Collected: 02/21/20
Time Collected: 11:18
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/02/20				Preparation Date: 02/28/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/27/20				Preparation Date: 02/26/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.5	1.0	mg/kg	
Barium	46.8	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	57,300	50	mg/kg	
Chromium	19.3	0.5	mg/kg	
Cobalt	10.4	0.5	mg/kg	
Copper	22.2	0.5	mg/kg	
Iron	18,900	5.0	mg/kg	
Lead	10.3	0.5	mg/kg	
Magnesium	21,900	50	mg/kg	
Manganese	311	0.5	mg/kg	
Nickel	28.1	0.5	mg/kg	
Potassium	2,610	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	142	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-37-02 (5-10)
Sample No: 20-0977-051

Date Collected: 02/21/20
Time Collected: 11:18
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/27/20	Method: 6010C		Preparation Method 3050B Preparation Date: 02/26/20	
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	22.2	1.0	mg/kg	
Zinc	44.8	1.0	mg/kg	
Total Mercury Analysis Date: 02/27/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 03/02/20 9:30	Method: 9045D 2004			
pH @ 25°C, 1:2	8.59		Units	
TCLP Extraction Analysis Date: 02/26/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 03/03/20	Method: 6010C		Preparation Method 3010A Preparation Date: 03/02/20	
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	1.3	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 Analysis Date: 02/28/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-37-02 (5-10)
Sample No: 20-0977-051

Date Collected: 02/21/20
Time Collected: 11:18
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/26/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/03/20		Preparation Date: 03/02/20		
Arsenic	0.030	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.005	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.182	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.197	0.005	mg/L	
Iron	190	0.1	mg/L	
Lead	0.097	0.005	mg/L	
Manganese	2.2	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	0.5	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 03/02/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-37-02 (5-10)
Sample No: 20-0977-051

Date Collected: 02/21/20
Time Collected: 11:18
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 94.1	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 101.2	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 98.4	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 89.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 70.1	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 67.1	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 85.2	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 85.2	35 - 105	
8270C	Phenol-d5 (surr)	%R: 73.4	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-37-02 (10-13)
Sample No: 20-0977-052

Date Collected: 02/21/20
Time Collected: 11:19
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	82.84		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/27/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-37-02 (10-13)
Sample No: 20-0977-052

Date Collected: 02/21/20
Time Collected: 11:19
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/27/20				
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: 03/02/20				
Preparation Date: 02/28/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-37-02 (10-13)
Sample No: 20-0977-052

Date Collected: 02/21/20
Time Collected: 11:19
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/02/20		Preparation Date: 02/28/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-37-02 (10-13)
Sample No: 20-0977-052

Date Collected: 02/21/20
Time Collected: 11:19
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/02/20				Preparation Date: 02/28/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/27/20				Preparation Date: 02/26/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	10.8	1.0	mg/kg	
Barium	49.3	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	56,400	50	mg/kg	
Chromium	20.8	0.5	mg/kg	
Cobalt	10.1	0.5	mg/kg	
Copper	18.6	0.5	mg/kg	
Iron	22,200	5.0	mg/kg	
Lead	12.4	0.5	mg/kg	
Magnesium	25,100	50	mg/kg	
Manganese	305	0.5	mg/kg	
Nickel	29.2	0.5	mg/kg	
Potassium	2,790	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	158	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-37-02 (10-13)
Sample No: 20-0977-052

Date Collected: 02/21/20
Time Collected: 11:19
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Preparation Method 3050B				
Analysis Date: 02/27/20 Preparation Date: 02/26/20				
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	24.8	1.0	mg/kg	
Zinc	45.8	1.0	mg/kg	
Total Mercury Method: 7471B				
Analysis Date: 02/27/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 03/02/20 9:30				
pH @ 25°C, 1:2	8.60		Units	
TCLP Extraction Method: 1311				
Analysis Date: 02/26/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/03/20 Preparation Date: 03/02/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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: 02/28/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/21/20
Project ID:	IDOT WO# 33 81.0220509.67	Time Collected:	11:19
Sample ID:	2673V-37-02 (10-13)	Date Received:	02/21/20
Sample No:	20-0977-052	Date Reported:	03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/26/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/03/20		Preparation Date: 03/02/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.006	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.005	0.005	mg/L	
Iron	4.1	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: 03/02/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-37-02 (10-13)
Sample No: 20-0977-052

Date Collected: 02/21/20
Time Collected: 11:19
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 90.9	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 99.3	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 94.6	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 88.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 70.7	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 67.5	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 86.5	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 86.4	35 - 105	
8270C	Phenol-d5 (surr)	%R: 73.9	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-37-03 (0-5)
Sample No: 20-0977-053

Date Collected: 02/21/20
Time Collected: 11:25
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	88.63		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/28/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-37-03 (0-5)
Sample No: 20-0977-053

Date Collected: 02/21/20
Time Collected: 11:25
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/28/20				
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: 03/02/20				
Preparation Date: 03/01/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-37-03 (0-5)
Sample No: 20-0977-053

Date Collected: 02/21/20
Time Collected: 11:25
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/02/20		Preparation Date: 03/01/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-37-03 (0-5)
Sample No: 20-0977-053

Date Collected: 02/21/20
Time Collected: 11:25
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/02/20				Preparation Date: 03/01/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/27/20				Preparation Date: 02/26/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.1	1.0	mg/kg	
Barium	45.8	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	92,600	50	mg/kg	
Chromium	12.1	0.5	mg/kg	
Cobalt	5.8	0.5	mg/kg	
Copper	19.8	0.5	mg/kg	
Iron	14,700	5.0	mg/kg	
Lead	12.2	0.5	mg/kg	
Magnesium	54,100	50	mg/kg	
Manganese	247	0.5	mg/kg	
Nickel	18.1	0.5	mg/kg	
Potassium	1,610	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	191	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-37-03 (0-5)
Sample No: 20-0977-053

Date Collected: 02/21/20
Time Collected: 11:25
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Preparation Method 3050B				
Analysis Date: 02/27/20 Preparation Date: 02/26/20				
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	18.0	1.0	mg/kg	
Zinc	36.0	1.0	mg/kg	
Total Mercury Method: 7471B				
Analysis Date: 02/27/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 03/02/20 9:30				
pH @ 25°C, 1:2	8.66		Units	
TCLP Extraction Method: 1311				
Analysis Date: 02/26/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/03/20 Preparation Date: 03/02/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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: 02/28/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/21/20
Project ID:	IDOT WO# 33 81.0220509.67	Time Collected:	11:25
Sample ID:	2673V-37-03 (0-5)	Date Received:	02/21/20
Sample No:	20-0977-053	Date Reported:	03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/26/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/03/20		Preparation Date: 03/02/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.022	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.025	0.005	mg/L	
Iron	23.7	0.1	mg/L	
Lead	0.014	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: 03/02/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-37-03 (0-5)
Sample No: 20-0977-053

Date Collected: 02/21/20
Time Collected: 11:25
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 98.7	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 100.5	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 104.7	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 94.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 67.7	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 59.3	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 92.9	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 79.3	35 - 105	
8270C	Phenol-d5 (surr)	%R: 66.2	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-37-03 (5-10)
Sample No: 20-0977-054

Date Collected: 02/21/20
Time Collected: 11:27
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	84.79		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/28/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-37-03 (5-10)
Sample No: 20-0977-054

Date Collected: 02/21/20
Time Collected: 11:27
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/28/20				
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: 03/02/20				
Preparation Date: 03/01/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-37-03 (5-10)
Sample No: 20-0977-054

Date Collected: 02/21/20
Time Collected: 11:27
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/02/20		Preparation Date: 03/01/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-37-03 (5-10)
Sample No: 20-0977-054

Date Collected: 02/21/20
Time Collected: 11:27
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/02/20				Preparation Date: 03/01/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/27/20				Preparation Date: 02/26/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.5	1.0	mg/kg	
Barium	53.8	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	67,000	50	mg/kg	
Chromium	17.0	0.5	mg/kg	
Cobalt	7.9	0.5	mg/kg	
Copper	26.9	0.5	mg/kg	
Iron	18,300	5.0	mg/kg	
Lead	17.4	0.5	mg/kg	
Magnesium	38,500	50	mg/kg	
Manganese	298	0.5	mg/kg	
Nickel	22.8	0.5	mg/kg	
Potassium	1,780	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	215	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-37-03 (5-10)
Sample No: 20-0977-054

Date Collected: 02/21/20
Time Collected: 11:27
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/26/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/03/20		Preparation Date: 03/02/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.006	0.005	mg/L	
Iron	3.3	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: 03/02/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-37-03 (5-10)
Sample No: 20-0977-054

Date Collected: 02/21/20
Time Collected: 11:27
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 96.3	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 98.9	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 97.2	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 100.3	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 75.2	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 69.6	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 96.6	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 91.7	35 - 105	
8270C	Phenol-d5 (surr)	%R: 75.6	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-DUP-21
Sample No: 20-0977-109

Date Collected: 02/21/20
Time Collected: 9:15
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	83.36		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/03/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-DUP-21
Sample No: 20-0977-109

Date Collected: 02/21/20
Time Collected: 9:15
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/03/20				
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: 03/04/20				
Preparation Date: 03/02/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-DUP-21
Sample No: 20-0977-109

Date Collected: 02/21/20
Time Collected: 9:15
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/04/20		Preparation Date: 03/02/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-DUP-21
Sample No: 20-0977-109

Date Collected: 02/21/20
Time Collected: 9:15
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/04/20				Preparation Date: 03/02/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/02/20				Preparation Date: 03/02/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.8	1.0	mg/kg	
Barium	63.4	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	47,300	50	mg/kg	
Chromium	21.6	0.5	mg/kg	
Cobalt	11.7	0.5	mg/kg	
Copper	23.1	0.5	mg/kg	
Iron	22,900	5.0	mg/kg	
Lead	11.8	0.5	mg/kg	
Magnesium	23,600	50	mg/kg	
Manganese	414	0.5	mg/kg	
Nickel	30.8	0.5	mg/kg	
Potassium	2,770	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	227	50	mg/kg	



Analytical Report

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Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-DUP-21
Sample No: 20-0977-109

Date Collected: 02/21/20
Time Collected: 9:15
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 03/02/20		Method: 6010C Preparation Method 3050B Preparation Date: 03/02/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	27.2	1.0	mg/kg	
Zinc	51.3	1.0	mg/kg	
Total Mercury Analysis Date: 03/03/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 03/03/20 9:15		Method: 9045D 2004		
pH @ 25°C, 1:2	8.46		Units	
TCLP Extraction Analysis Date: 02/27/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 03/05/20		Method: 6010C Preparation Method 3010A Preparation Date: 03/04/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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 Analysis Date: 03/04/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-DUP-21
Sample No: 20-0977-109

Date Collected: 02/21/20
Time Collected: 9:15
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/27/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/05/20		Preparation Date: 03/03/20		
Arsenic	0.024	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.070	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.075	0.005	mg/L	
Iron	76.4	0.1	mg/L	
Lead	0.034	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: 03/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-DUP-21
Sample No: 20-0977-109

Date Collected: 02/21/20
Time Collected: 9:15
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 98.1	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 97.2	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 110.7	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 99.8	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 73.6	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 67.3	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 98.2	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 85.3	35 - 105	
8270C	Phenol-d5 (surr)	%R: 74.3	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-40-02 (0-5)
Sample No: 20-0977-060

Date Collected: 02/21/20
Time Collected: 12:25
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	79.81		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/28/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	7.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-40-02 (0-5)
Sample No: 20-0977-060

Date Collected: 02/21/20
Time Collected: 12:25
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/28/20				
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: 03/02/20				
Preparation Date: 03/01/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-40-02 (0-5)
Sample No: 20-0977-060

Date Collected: 02/21/20
Time Collected: 12:25
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/02/20		Preparation Date: 03/01/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-40-02 (0-5)
Sample No: 20-0977-060

Date Collected: 02/21/20
Time Collected: 12:25
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/02/20				Preparation Date: 03/01/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/28/20				Preparation Date: 02/26/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.0	1.0	mg/kg	
Barium	136	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	9,520	50	mg/kg	
Chromium	18.8	0.5	mg/kg	
Cobalt	11.6	0.5	mg/kg	
Copper	27.2	0.5	mg/kg	
Iron	23,100	5.0	mg/kg	
Lead	30.4	0.5	mg/kg	
Magnesium	6,080	50	mg/kg	
Manganese	671	0.5	mg/kg	
Nickel	26.8	0.5	mg/kg	
Potassium	1,750	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	80	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-40-02 (0-5)
Sample No: 20-0977-060

Date Collected: 02/21/20
Time Collected: 12:25
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/26/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/03/20		Preparation Date: 03/02/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.007	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.007	0.005	mg/L	
Iron	5.7	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: 03/02/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-40-02 (0-5)
Sample No: 20-0977-060

Date Collected: 02/21/20
Time Collected: 12:25
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 94.6	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 99	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 98.6	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 97.6	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 78.3	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 63.7	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 92.5	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 89.5	35 - 105	
8270C	Phenol-d5 (surr)	%R: 72.2	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-40-02 (5-10)
Sample No: 20-0977-061

Date Collected: 02/21/20
Time Collected: 12:30
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	82.62		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/28/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-40-02 (5-10)
Sample No: 20-0977-061

Date Collected: 02/21/20
Time Collected: 12:30
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/28/20				
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: 03/03/20				
Preparation Date: 03/01/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-40-02 (5-10)
Sample No: 20-0977-061

Date Collected: 02/21/20
Time Collected: 12:30
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/03/20		Preparation Date: 03/01/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-40-02 (5-10)
Sample No: 20-0977-061

Date Collected: 02/21/20
Time Collected: 12:30
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/03/20				Preparation Date: 03/01/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/28/20				Preparation Date: 02/26/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.6	1.0	mg/kg	
Barium	64.3	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	60,400	50	mg/kg	
Chromium	22.4	0.5	mg/kg	
Cobalt	14.0	0.5	mg/kg	
Copper	23.3	0.5	mg/kg	
Iron	23,000	5.0	mg/kg	
Lead	11.7	0.5	mg/kg	
Magnesium	27,200	50	mg/kg	
Manganese	629	0.5	mg/kg	
Nickel	36.8	0.5	mg/kg	
Potassium	3,150	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	174	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-40-02 (5-10)
Sample No: 20-0977-061

Date Collected: 02/21/20
Time Collected: 12:30
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Preparation Method 3050B				
Analysis Date: 02/28/20 Preparation Date: 02/26/20				
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	26.5	1.0	mg/kg	
Zinc	51.1	1.0	mg/kg	
Total Mercury Method: 7471B				
Analysis Date: 02/28/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 03/02/20 10:00				
pH @ 25°C, 1:2	7.98		Units	
TCLP Extraction Method: 1311				
Analysis Date: 02/26/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/04/20 Preparation Date: 03/02/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.6	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: 03/03/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-40-02 (5-10)
Sample No: 20-0977-061

Date Collected: 02/21/20
Time Collected: 12:30
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/26/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/04/20		Preparation Date: 03/02/20		
Arsenic	0.017	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.046	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.036	0.005	mg/L	
Iron	42.4	0.1	mg/L	
Lead	0.015	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: 03/03/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-40-02 (5-10)
Sample No: 20-0977-061

Date Collected: 02/21/20
Time Collected: 12:30
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 106.4	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 102.2	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 105.9	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 72.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 69.5	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 65.9	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 88.1	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 81.9	35 - 105	
8270C	Phenol-d5 (surr)	%R: 69.4	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-42-01 (0-5)
Sample No: 20-0977-065

Date Collected: 02/21/20
Time Collected: 12:55
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	79.64		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/02/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-42-01 (0-5)
Sample No: 20-0977-065

Date Collected: 02/21/20
Time Collected: 12:55
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/02/20				
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: 03/03/20				
Preparation Date: 03/01/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-42-01 (0-5)
Sample No: 20-0977-065

Date Collected: 02/21/20
Time Collected: 12:55
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/03/20		Preparation Date: 03/01/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-42-01 (0-5)
Sample No: 20-0977-065

Date Collected: 02/21/20
Time Collected: 12:55
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/03/20				Preparation Date: 03/01/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/28/20				Preparation Date: 02/26/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.9	1.0	mg/kg	
Barium	75.6	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	30,600	50	mg/kg	
Chromium	18.7	0.5	mg/kg	
Cobalt	12.8	0.5	mg/kg	
Copper	28.8	0.5	mg/kg	
Iron	22,200	5.0	mg/kg	
Lead	20.8	0.5	mg/kg	
Magnesium	15,800	50	mg/kg	
Manganese	409	0.5	mg/kg	
Nickel	28.0	0.5	mg/kg	
Potassium	2,300	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	105	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-42-01 (0-5)
Sample No: 20-0977-065

Date Collected: 02/21/20
Time Collected: 12:55
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Preparation Method 3050B				
Analysis Date: 02/28/20 Preparation Date: 02/26/20				
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	26.8	1.0	mg/kg	
Zinc	58.5	1.0	mg/kg	
Total Mercury Method: 7471B				
Analysis Date: 02/28/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 03/02/20 10:00				
pH @ 25°C, 1:2	7.73		Units	
TCLP Extraction Method: 1311				
Analysis Date: 02/26/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/04/20 Preparation Date: 03/02/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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: 03/03/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-42-01 (0-5)
Sample No: 20-0977-065

Date Collected: 02/21/20
Time Collected: 12:55
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/26/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/03/20		Preparation Date: 03/02/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.030	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.035	0.005	mg/L	
Iron	30.6	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: 03/03/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-42-01 (0-5)
Sample No: 20-0977-065

Date Collected: 02/21/20
Time Collected: 12:55
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 105	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 100.9	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 99.3	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 72.5	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 76	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 66	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 89	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 87.3	35 - 105	
8270C	Phenol-d5 (surr)	%R: 75	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-42-01 (5-10)
Sample No: 20-0977-066

Date Collected: 02/21/20
Time Collected: 13:00
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	82.82		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/02/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-42-01 (5-10)
Sample No: 20-0977-066

Date Collected: 02/21/20
Time Collected: 13:00
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/02/20				
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: 03/03/20				
Preparation Date: 03/01/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-42-01 (5-10)
Sample No: 20-0977-066

Date Collected: 02/21/20
Time Collected: 13:00
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/03/20		Preparation Date: 03/01/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-42-01 (5-10)
Sample No: 20-0977-066

Date Collected: 02/21/20
Time Collected: 13:00
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/03/20				Preparation Date: 03/01/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/28/20				Preparation Date: 02/26/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	9.7	1.0	mg/kg	
Barium	61.9	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	48,000	50	mg/kg	
Chromium	18.6	0.5	mg/kg	
Cobalt	14.5	0.5	mg/kg	
Copper	36.4	0.5	mg/kg	
Iron	28,600	5.0	mg/kg	
Lead	16.4	0.5	mg/kg	
Magnesium	24,400	50	mg/kg	
Manganese	620	0.5	mg/kg	
Nickel	38.8	0.5	mg/kg	
Potassium	2,470	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	137	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-42-01 (5-10)
Sample No: 20-0977-066

Date Collected: 02/21/20
Time Collected: 13:00
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Preparation Method 3050B				
Analysis Date: 02/28/20 Preparation Date: 02/26/20				
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	25.3	1.0	mg/kg	
Zinc	53.6	1.0	mg/kg	
Total Mercury Method: 7471B				
Analysis Date: 02/28/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 03/02/20 10:00				
pH @ 25°C, 1:2	8.27		Units	
TCLP Extraction Method: 1311				
Analysis Date: 02/26/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/04/20 Preparation Date: 03/02/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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: 03/03/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.	Date Collected: 02/21/20
Project ID: IDOT WO# 33 81.0220509.67	Time Collected: 13:00
Sample ID: 2673V-42-01 (5-10)	Date Received: 02/21/20
Sample No: 20-0977-066	Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/26/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/03/20		Preparation Date: 03/02/20		
Arsenic	0.036	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.043	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.060	0.005	mg/L	
Iron	58.3	0.1	mg/L	
Lead	0.022	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: 03/03/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-42-01 (5-10)
Sample No: 20-0977-066

Date Collected: 02/21/20
Time Collected: 13:00
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 104.8	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 101.3	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 103.8	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 71.8	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 65.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 61.6	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 86.7	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 80.7	35 - 105	
8270C	Phenol-d5 (surr)	%R: 67.8	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-DUP-22
Sample No: 20-0977-110

Date Collected: 02/21/20
Time Collected: 9:45
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	84.17		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/03/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-DUP-22
Sample No: 20-0977-110

Date Collected: 02/21/20
Time Collected: 9:45
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/03/20				
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: 03/04/20				
Preparation Date: 03/02/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-DUP-22
Sample No: 20-0977-110

Date Collected: 02/21/20
Time Collected: 9:45
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/04/20		Preparation Date: 03/02/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-DUP-22
Sample No: 20-0977-110

Date Collected: 02/21/20
Time Collected: 9:45
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/04/20				Preparation Date: 03/02/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/02/20				Preparation Date: 03/02/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.3	1.0	mg/kg	
Barium	76.7	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	71,800	50	mg/kg	
Chromium	15.1	0.5	mg/kg	
Cobalt	6.0	0.5	mg/kg	
Copper	24.7	0.5	mg/kg	
Iron	18,300	5.0	mg/kg	
Lead	11.3	0.5	mg/kg	
Magnesium	16,000	50	mg/kg	
Manganese	216	0.5	mg/kg	
Nickel	22.4	0.5	mg/kg	
Potassium	1,990	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	150	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-DUP-22
Sample No: 20-0977-110

Date Collected: 02/21/20
Time Collected: 9:45
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Preparation Method 3050B				
Analysis Date: 03/02/20 Preparation Date: 03/02/20				
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	19.4	1.0	mg/kg	
Zinc	39.8	1.0	mg/kg	
Total Mercury Method: 7471B				
Analysis Date: 03/03/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 03/03/20 9:15				
pH @ 25°C, 1:2	7.89		Units	
TCLP Extraction Method: 1311				
Analysis Date: 02/27/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/05/20 Preparation Date: 03/04/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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: 03/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-DUP-22
Sample No: 20-0977-110

Date Collected: 02/21/20
Time Collected: 9:45
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/27/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/05/20		Preparation Date: 03/03/20		
Arsenic	0.020	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.029	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.038	0.005	mg/L	
Iron	34.7	0.1	mg/L	
Lead	0.014	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: 03/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-DUP-22
Sample No: 20-0977-110

Date Collected: 02/21/20
Time Collected: 9:45
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 97.8	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 96.2	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 108.1	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 102.8	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 79.1	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 69.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 99.4	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 89.1	35 - 105	
8270C	Phenol-d5 (surr)	%R: 78.5	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-42-03 (0-5)
Sample No: 20-0977-070

Date Collected: 02/21/20
Time Collected: 13:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	62.58		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/04/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-42-03 (0-5)
Sample No: 20-0977-070

Date Collected: 02/21/20
Time Collected: 13:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/04/20				
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: 03/03/20				
Preparation Date: 03/01/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-42-03 (0-5)
Sample No: 20-0977-070

Date Collected: 02/21/20
Time Collected: 13:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/03/20		Preparation Date: 03/01/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-42-03 (0-5)
Sample No: 20-0977-070

Date Collected: 02/21/20
Time Collected: 13:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/03/20				Preparation Date: 03/01/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/28/20				Preparation Date: 02/26/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.5	1.0	mg/kg	
Barium	87.7	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,030	50	mg/kg	
Chromium	21.0	0.5	mg/kg	
Cobalt	11.4	0.5	mg/kg	
Copper	19.9	0.5	mg/kg	
Iron	22,900	5.0	mg/kg	
Lead	15.8	0.5	mg/kg	
Magnesium	3,980	50	mg/kg	
Manganese	301	0.5	mg/kg	
Nickel	22.3	0.5	mg/kg	
Potassium	2,340	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	70	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-42-03 (0-5)
Sample No: 20-0977-070

Date Collected: 02/21/20
Time Collected: 13:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Preparation Method 3050B				
Analysis Date: 02/28/20 Preparation Date: 02/26/20				
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	32.7	1.0	mg/kg	
Zinc	45.8	1.0	mg/kg	
Total Mercury Method: 7471B				
Analysis Date: 02/28/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 03/02/20 10:00				
pH @ 25°C, 1:2	7.71		Units	
TCLP Extraction Method: 1311				
Analysis Date: 02/26/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/04/20 Preparation Date: 03/02/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	< 0.1	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: 03/03/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-42-03 (0-5)
Sample No: 20-0977-070

Date Collected: 02/21/20
Time Collected: 13:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/26/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/04/20		Preparation Date: 03/02/20		
Arsenic	0.016	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.101	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.083	0.005	mg/L	
Iron	92.1	0.1	mg/L	
Lead	0.032	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	0.2	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 03/03/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-42-03 (0-5)
Sample No: 20-0977-070

Date Collected: 02/21/20
Time Collected: 13:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 101.2	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 98.2	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 111.7	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 76	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 69.8	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 69.1	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 91.2	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 83.8	35 - 105	
8270C	Phenol-d5 (surr)	%R: 74	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-42-03 (5-10)
Sample No: 20-0977-071

Date Collected: 02/21/20
Time Collected: 13:12
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	75.13		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/02/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-42-03 (5-10)
Sample No: 20-0977-071

Date Collected: 02/21/20
Time Collected: 13:12
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/02/20				
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: 03/03/20				
Preparation Date: 03/01/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-42-03 (5-10)
Sample No: 20-0977-071

Date Collected: 02/21/20
Time Collected: 13:12
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/03/20		Preparation Date: 03/01/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-42-03 (5-10)
Sample No: 20-0977-071

Date Collected: 02/21/20
Time Collected: 13:12
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/03/20				Preparation Date: 03/01/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/28/20				Preparation Date: 02/26/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	10.4	1.0	mg/kg	
Barium	31.2	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	35,400	50	mg/kg	
Chromium	15.8	0.5	mg/kg	
Cobalt	14.0	0.5	mg/kg	
Copper	43.3	0.5	mg/kg	
Iron	24,500	5.0	mg/kg	
Lead	19.0	0.5	mg/kg	
Magnesium	22,600	50	mg/kg	
Manganese	422	0.5	mg/kg	
Nickel	36.9	0.5	mg/kg	
Potassium	2,340	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	170	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-42-03 (5-10)
Sample No: 20-0977-071

Date Collected: 02/21/20
Time Collected: 13:12
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Preparation Method 3050B				
Analysis Date: 02/28/20 Preparation Date: 02/26/20				
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	20.4	1.0	mg/kg	
Zinc	66.4	1.0	mg/kg	
Total Mercury Method: 7471B				
Analysis Date: 02/28/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 03/03/20 8:00				
pH @ 25°C, 1:2	8.17		Units	
TCLP Extraction Method: 1311				
Analysis Date: 02/26/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/04/20 Preparation Date: 03/02/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	1.3	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: 03/03/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-42-03 (5-10)
Sample No: 20-0977-071

Date Collected: 02/21/20
Time Collected: 13:12
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/26/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/04/20		Preparation Date: 03/02/20		
Arsenic	0.049	0.010	mg/L	
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	0.186	0.005	mg/L	
Iron	115	0.1	mg/L	
Lead	0.060	0.005	mg/L	
Manganese	0.7	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	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 03/03/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-42-03 (5-10)
Sample No: 20-0977-071

Date Collected: 02/21/20
Time Collected: 13:12
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 104.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 101.3	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 103.2	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 71.7	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 65	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 68.6	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 88	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 84.3	35 - 105	
8270C	Phenol-d5 (surr)	%R: 71.7	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-44-01 (0-5)
Sample No: 20-0977-074

Date Collected: 02/21/20
Time Collected: 13:20
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	82.79		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/04/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-44-01 (0-5)
Sample No: 20-0977-074

Date Collected: 02/21/20
Time Collected: 13:20
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/04/20				
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: 03/03/20				
Preparation Date: 03/02/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-44-01 (0-5)
Sample No: 20-0977-074

Date Collected: 02/21/20
Time Collected: 13:20
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/03/20		Preparation Date: 03/02/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-44-01 (0-5)
Sample No: 20-0977-074

Date Collected: 02/21/20
Time Collected: 13:20
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/03/20				Preparation Date: 03/02/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/28/20				Preparation Date: 02/26/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.4	1.0	mg/kg	
Barium	92.3	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	74,400	50	mg/kg	
Chromium	21.0	0.5	mg/kg	
Cobalt	7.2	0.5	mg/kg	
Copper	25.0	0.5	mg/kg	
Iron	21,600	5.0	mg/kg	
Lead	15.1	0.5	mg/kg	
Magnesium	21,200	50	mg/kg	
Manganese	339	0.5	mg/kg	
Nickel	27.1	0.5	mg/kg	
Potassium	2,540	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	3,520	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-44-01 (0-5)
Sample No: 20-0977-074

Date Collected: 02/21/20
Time Collected: 13:20
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/28/20				Preparation Date: 02/26/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	27.8	1.0	mg/kg	
Zinc	43.8	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/28/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 03/03/20 8:00				
pH @ 25°C, 1:2	8.80		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/26/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/04/20				Preparation Date: 03/02/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	6.9	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: 03/03/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-44-01 (0-5)
Sample No: 20-0977-074

Date Collected: 02/21/20
Time Collected: 13:20
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/26/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/04/20		Preparation Date: 03/02/20		
Arsenic	0.048	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.007	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.167	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.161	0.005	mg/L	
Iron	159	0.1	mg/L	
Lead	0.124	0.005	mg/L	
Manganese	2.0	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	0.4	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 03/03/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-44-01 (0-5)
Sample No: 20-0977-074

Date Collected: 02/21/20
Time Collected: 13:20
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 100.4	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 97.5	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 110.2	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 72.2	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 62.5	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 70	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 86.1	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 83.7	35 - 105	
8270C	Phenol-d5 (surr)	%R: 73.2	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-44-01 (5-10)
Sample No: 20-0977-075

Date Collected: 02/21/20
Time Collected: 13:23
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	78.43		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/04/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-44-01 (5-10)
Sample No: 20-0977-075

Date Collected: 02/21/20
Time Collected: 13:23
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/04/20				
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: 03/03/20				
Preparation Date: 03/02/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-44-01 (5-10)
Sample No: 20-0977-075

Date Collected: 02/21/20
Time Collected: 13:23
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/03/20		Preparation Date: 03/02/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-44-01 (5-10)
Sample No: 20-0977-075

Date Collected: 02/21/20
Time Collected: 13:23
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/03/20				Preparation Date: 03/02/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/28/20				Preparation Date: 02/26/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.6	1.0	mg/kg	
Barium	84.0	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	55,300	50	mg/kg	
Chromium	21.3	0.5	mg/kg	
Cobalt	10.0	0.5	mg/kg	
Copper	23.6	0.5	mg/kg	
Iron	21,500	5.0	mg/kg	
Lead	10.7	0.5	mg/kg	
Magnesium	23,800	50	mg/kg	
Manganese	342	0.5	mg/kg	
Nickel	29.2	0.5	mg/kg	
Potassium	3,060	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	591	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-44-01 (5-10)
Sample No: 20-0977-075

Date Collected: 02/21/20
Time Collected: 13:23
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Preparation Method 3050B				
Analysis Date: 02/28/20 Preparation Date: 02/26/20				
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	26.3	1.0	mg/kg	
Zinc	49.3	1.0	mg/kg	
Total Mercury Method: 7471B				
Analysis Date: 02/28/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 03/03/20 8:00				
pH @ 25°C, 1:2	8.21		Units	
TCLP Extraction Method: 1311				
Analysis Date: 02/26/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/04/20 Preparation Date: 03/02/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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: 03/03/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-44-01 (5-10)
Sample No: 20-0977-075

Date Collected: 02/21/20
Time Collected: 13:23
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/26/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/04/20		Preparation Date: 03/02/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.007	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	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: 03/03/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-44-01 (5-10)
Sample No: 20-0977-075

Date Collected: 02/21/20
Time Collected: 13:23
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 97.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 96.8	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 102.5	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 68.8	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 61.9	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 72.4	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 87.3	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 83.6	35 - 105	
8270C	Phenol-d5 (surr)	%R: 74.6	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-44-01 (10-13)
Sample No: 20-0977-076

Date Collected: 02/21/20
Time Collected: 13:27
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	82.22		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/04/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-44-01 (10-13)
Sample No: 20-0977-076

Date Collected: 02/21/20
Time Collected: 13:27
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/04/20				
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: 03/03/20				
Preparation Date: 03/02/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



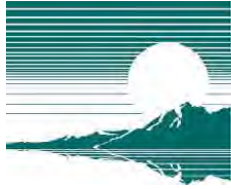
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-44-01 (10-13)
Sample No: 20-0977-076

Date Collected: 02/21/20
Time Collected: 13:27
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/03/20		Preparation Date: 03/02/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-44-01 (10-13)
Sample No: 20-0977-076

Date Collected: 02/21/20
Time Collected: 13:27
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/03/20				Preparation Date: 03/02/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/28/20				Preparation Date: 02/26/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.1	1.0	mg/kg	
Barium	41.6	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	58,500	50	mg/kg	
Chromium	23.7	0.5	mg/kg	
Cobalt	8.4	0.5	mg/kg	
Copper	25.4	0.5	mg/kg	
Iron	22,000	5.0	mg/kg	
Lead	12.5	0.5	mg/kg	
Magnesium	25,600	50	mg/kg	
Manganese	283	0.5	mg/kg	
Nickel	28.2	0.5	mg/kg	
Potassium	3,130	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	759	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/21/20

Project ID: IDOT WO# 33 81.0220509.67

Time Collected: 13:27

Sample ID: 2673V-44-01 (10-13)

Date Received: 02/21/20

Sample No: 20-0977-076

Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/28/20	Method: 6010C		Preparation Method 3050B Preparation Date: 02/26/20	
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	26.4	1.0	mg/kg	
Zinc	51.3	1.0	mg/kg	
Total Mercury Analysis Date: 03/02/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 03/03/20 8:00	Method: 9045D 2004			
pH @ 25°C, 1:2	8.34		Units	
TCLP Extraction Analysis Date: 02/26/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 03/04/20	Method: 6010C		Preparation Method 3010A Preparation Date: 03/02/20	
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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 Analysis Date: 03/03/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-44-01 (10-13)
Sample No: 20-0977-076

Date Collected: 02/21/20
Time Collected: 13:27
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/26/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/04/20		Preparation Date: 03/02/20		
Arsenic	< 0.010	0.010	mg/L	
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	0.010	0.005	mg/L	
Iron	10.2	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: 03/03/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-44-01 (10-13)
Sample No: 20-0977-076

Date Collected: 02/21/20
Time Collected: 13:27
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 98.2	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 97.3	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 109.3	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 70.5	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 57.6	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 71.5	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 86.8	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 85.1	35 - 105	
8270C	Phenol-d5 (surr)	%R: 74.3	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-44-02 (0-5)
Sample No: 20-0977-077

Date Collected: 02/21/20
Time Collected: 13:40
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	73.38		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/04/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-44-02 (0-5)
Sample No: 20-0977-077

Date Collected: 02/21/20
Time Collected: 13:40
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/04/20				
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: 03/03/20				
Preparation Date: 03/02/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-44-02 (0-5)
Sample No: 20-0977-077

Date Collected: 02/21/20
Time Collected: 13:40
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/03/20		Preparation Date: 03/02/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



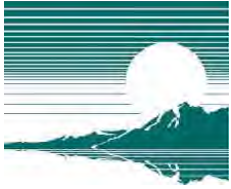
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-44-02 (0-5)
Sample No: 20-0977-077

Date Collected: 02/21/20
Time Collected: 13:40
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/03/20				Preparation Date: 03/02/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/28/20				Preparation Date: 02/26/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	9.1	1.0	mg/kg	
Barium	161	0.5	mg/kg	
Beryllium	1.2	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,590	50	mg/kg	
Chromium	22.5	0.5	mg/kg	
Cobalt	7.1	0.5	mg/kg	
Copper	25.7	0.5	mg/kg	
Iron	30,100	5.0	mg/kg	
Lead	15.6	0.5	mg/kg	
Magnesium	3,940	50	mg/kg	
Manganese	214	0.5	mg/kg	
Nickel	26.1	0.5	mg/kg	
Potassium	1,190	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	2,810	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-44-02 (0-5)
Sample No: 20-0977-077

Date Collected: 02/21/20
Time Collected: 13:40
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/28/20		Preparation Date: 02/26/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	34.6	1.0	mg/kg	
Zinc	52.3	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 03/02/20				
Mercury	0.06	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 03/03/20 8:00				
pH @ 25°C, 1:2	8.49		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/26/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/04/20		Preparation Date: 03/02/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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: 03/03/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-44-02 (0-5)
Sample No: 20-0977-077

Date Collected: 02/21/20
Time Collected: 13:40
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/26/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/04/20		Preparation Date: 03/02/20		
Arsenic	0.033	0.010	mg/L	
Barium	1.1	1.0	mg/L	
Beryllium	0.007	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.204	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.146	0.005	mg/L	
Iron	180	0.1	mg/L	
Lead	0.059	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	0.4	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 03/03/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-44-02 (0-5)
Sample No: 20-0977-077

Date Collected: 02/21/20
Time Collected: 13:40
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 97	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 96.6	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 104.5	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 98.5	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 68.3	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 71.5	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 89	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 89.2	35 - 105	
8270C	Phenol-d5 (surr)	%R: 76.4	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-44-02 (5-10)
Sample No: 20-0977-078

Date Collected: 02/21/20
Time Collected: 13:45
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	82.70		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/04/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-44-02 (5-10)
Sample No: 20-0977-078

Date Collected: 02/21/20
Time Collected: 13:45
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/04/20				
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: 03/03/20				
Preparation Date: 03/02/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-44-02 (5-10)
Sample No: 20-0977-078

Date Collected: 02/21/20
Time Collected: 13:45
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/03/20		Preparation Date: 03/02/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-44-02 (5-10)
Sample No: 20-0977-078

Date Collected: 02/21/20
Time Collected: 13:45
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/03/20				Preparation Date: 03/02/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/28/20				Preparation Date: 02/26/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.9	1.0	mg/kg	
Barium	44.9	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	54,800	50	mg/kg	
Chromium	19.9	0.5	mg/kg	
Cobalt	15.6	0.5	mg/kg	
Copper	28.1	0.5	mg/kg	
Iron	23,700	5.0	mg/kg	
Lead	16.1	0.5	mg/kg	
Magnesium	24,800	50	mg/kg	
Manganese	523	0.5	mg/kg	
Nickel	36.7	0.5	mg/kg	
Potassium	2,780	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	828	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/21/20

Project ID: IDOT WO# 33 81.0220509.67

Time Collected: 13:45

Sample ID: 2673V-44-02 (5-10)

Date Received: 02/21/20

Sample No: 20-0977-078

Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/28/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/26/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	25.3	1.0	mg/kg	
Zinc	50.3	1.0	mg/kg	
Total Mercury Analysis Date: 03/02/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 03/03/20 8:00	Method: 9045D 2004			
pH @ 25°C, 1:2	8.53		Units	
TCLP Extraction Analysis Date: 02/26/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 03/04/20	Method: 6010C	Preparation Method 3010A Preparation Date: 03/02/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	2.5	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 Analysis Date: 03/03/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-44-02 (5-10)
Sample No: 20-0977-078

Date Collected: 02/21/20
Time Collected: 13:45
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/26/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/04/20		Preparation Date: 03/02/20		
Arsenic	0.045	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.005	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.108	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.143	0.005	mg/L	
Iron	117	0.1	mg/L	
Lead	0.076	0.005	mg/L	
Manganese	0.9	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: 03/03/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-44-02 (5-10)
Sample No: 20-0977-078

Date Collected: 02/21/20
Time Collected: 13:45
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 104.6	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 98	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 112	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 97.1	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 75.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 73.2	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 88.9	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 90.5	35 - 105	
8270C	Phenol-d5 (surr)	%R: 78.8	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-44-02 (10-13)
Sample No: 20-0977-079

Date Collected: 02/21/20
Time Collected: 13:50
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	84.64		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/04/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-44-02 (10-13)
Sample No: 20-0977-079

Date Collected: 02/21/20
Time Collected: 13:50
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/04/20				
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: 03/03/20				
Preparation Date: 03/02/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	159	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-44-02 (10-13)
Sample No: 20-0977-079

Date Collected: 02/21/20
Time Collected: 13:50
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/03/20		Preparation Date: 03/02/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-44-02 (10-13)
Sample No: 20-0977-079

Date Collected: 02/21/20
Time Collected: 13:50
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/03/20				Preparation Date: 03/02/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/02/20				Preparation Date: 02/28/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.3	1.0	mg/kg	
Barium	42.7	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	49,900	50	mg/kg	
Chromium	21.3	0.5	mg/kg	
Cobalt	7.5	0.5	mg/kg	
Copper	23.8	0.5	mg/kg	
Iron	20,900	5.0	mg/kg	
Lead	10.5	0.5	mg/kg	
Magnesium	22,800	50	mg/kg	
Manganese	276	0.5	mg/kg	
Nickel	26.7	0.5	mg/kg	
Potassium	2,800	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	687	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-44-02 (10-13)
Sample No: 20-0977-079

Date Collected: 02/21/20
Time Collected: 13:50
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 03/02/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/28/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	26.4	1.0	mg/kg	
Zinc	48.6	1.0	mg/kg	
Total Mercury Analysis Date: 03/02/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 03/03/20 8:00	Method: 9045D 2004			
pH @ 25°C, 1:2	8.57		Units	
TCLP Extraction Analysis Date: 02/26/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 03/04/20	Method: 6010C	Preparation Method 3010A Preparation Date: 03/02/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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 Analysis Date: 03/03/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/21/20
Project ID:	IDOT WO# 33 81.0220509.67	Time Collected:	13:50
Sample ID:	2673V-44-02 (10-13)	Date Received:	02/21/20
Sample No:	20-0977-079	Date Reported:	03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/26/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/04/20		Preparation Date: 03/02/20		
Arsenic	0.020	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.006	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.148	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.141	0.005	mg/L	
Iron	127	0.1	mg/L	
Lead	0.061	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	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 03/03/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-44-02 (10-13)
Sample No: 20-0977-079

Date Collected: 02/21/20
Time Collected: 13:50
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 94.4	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 95.9	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 106	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 93.6	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 75	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 71.3	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 89.3	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 89.8	35 - 105	
8270C	Phenol-d5 (surr)	%R: 77.2	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-45-02 (0-4)
Sample No: 20-0977-082

Date Collected: 02/21/20
Time Collected: 14:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	81.44		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/28/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-45-02 (0-4)
Sample No: 20-0977-082

Date Collected: 02/21/20
Time Collected: 14:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/28/20				
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: 03/03/20				
Preparation Date: 03/02/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-45-02 (0-4)
Sample No: 20-0977-082

Date Collected: 02/21/20
Time Collected: 14:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/03/20		Preparation Date: 03/02/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-45-02 (0-4)
Sample No: 20-0977-082

Date Collected: 02/21/20
Time Collected: 14:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/03/20				Preparation Date: 03/02/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/02/20				Preparation Date: 02/28/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.6	1.0	mg/kg	
Barium	103	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	62,400	50	mg/kg	
Chromium	22.1	0.5	mg/kg	
Cobalt	8.2	0.5	mg/kg	
Copper	28.7	0.5	mg/kg	
Iron	25,400	5.0	mg/kg	
Lead	12.1	0.5	mg/kg	
Magnesium	23,200	50	mg/kg	
Manganese	240	0.5	mg/kg	
Nickel	28.1	0.5	mg/kg	
Potassium	2,740	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.7	0.2	mg/kg	
Sodium	2,420	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-45-02 (0-4)
Sample No: 20-0977-082

Date Collected: 02/21/20
Time Collected: 14:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Preparation Method 3050B				
Analysis Date: 03/02/20 Preparation Date: 02/28/20				
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	30.8	1.0	mg/kg	
Zinc	51.8	1.0	mg/kg	
Total Mercury Method: 7471B				
Analysis Date: 03/02/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 03/03/20 8:00				
pH @ 25°C, 1:2	8.90		Units	
TCLP Extraction Method: 1311				
Analysis Date: 02/27/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/04/20 Preparation Date: 03/02/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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: 03/03/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-45-02 (0-4)
Sample No: 20-0977-082

Date Collected: 02/21/20
Time Collected: 14:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/27/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/04/20		Preparation Date: 03/02/20		
Arsenic	0.058	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.007	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.188	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.192	0.005	mg/L	
Iron	176	0.1	mg/L	
Lead	0.071	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: 03/03/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-45-02 (0-4)
Sample No: 20-0977-082

Date Collected: 02/21/20
Time Collected: 14:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 96.3	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 98.3	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 94.8	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 98.8	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 73.9	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 70.1	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 90.7	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 90.6	35 - 105	
8270C	Phenol-d5 (surr)	%R: 75.3	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-45-02 (4-7)
Sample No: 20-0977-083

Date Collected: 02/21/20
Time Collected: 14:12
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	77.97		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/28/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-45-02 (4-7)
Sample No: 20-0977-083

Date Collected: 02/21/20
Time Collected: 14:12
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/28/20				
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: 03/03/20				
Preparation Date: 03/02/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-45-02 (4-7)
Sample No: 20-0977-083

Date Collected: 02/21/20
Time Collected: 14:12
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/03/20		Preparation Date: 03/02/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-45-02 (4-7)
Sample No: 20-0977-083

Date Collected: 02/21/20
Time Collected: 14:12
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/03/20				Preparation Date: 03/02/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/02/20				Preparation Date: 02/28/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.0	1.0	mg/kg	
Barium	46.9	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	67,000	50	mg/kg	
Chromium	22.7	0.5	mg/kg	
Cobalt	7.0	0.5	mg/kg	
Copper	22.5	0.5	mg/kg	
Iron	20,700	5.0	mg/kg	
Lead	8.6	0.5	mg/kg	
Magnesium	33,000	50	mg/kg	
Manganese	236	0.5	mg/kg	
Nickel	27.0	0.5	mg/kg	
Potassium	2,790	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	2,390	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-45-02 (4-7)
Sample No: 20-0977-083

Date Collected: 02/21/20
Time Collected: 14:12
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 03/02/20		Preparation Date: 02/28/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	25.7	1.0	mg/kg	
Zinc	47.2	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 03/02/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 03/03/20 8:00				
pH @ 25°C, 1:2	8.37		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/27/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/04/20		Preparation Date: 03/02/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	2.3	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: 03/03/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-45-02 (4-7)
Sample No: 20-0977-083

Date Collected: 02/21/20
Time Collected: 14:12
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/27/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/04/20		Preparation Date: 03/02/20		
Arsenic	0.052	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.006	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.199	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.206	0.005	mg/L	
Iron	176	0.1	mg/L	
Lead	0.100	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: 03/03/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-45-02 (4-7)
Sample No: 20-0977-083

Date Collected: 02/21/20
Time Collected: 14:12
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 96.2	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 100.2	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 99.4	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 101.5	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 71.1	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 72.3	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 90.4	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 90.4	35 - 105	
8270C	Phenol-d5 (surr)	%R: 78	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-12 (0-5)
Sample No: 20-0977-084

Date Collected: 02/21/20
Time Collected: 14:40
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	86.93		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/28/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-59-12 (0-5)
Sample No: 20-0977-084

Date Collected: 02/21/20
Time Collected: 14:40
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/28/20				
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: 03/03/20				
Preparation Date: 03/02/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-12 (0-5)
Sample No: 20-0977-084

Date Collected: 02/21/20
Time Collected: 14:40
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/03/20		Preparation Date: 03/02/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-12 (0-5)
Sample No: 20-0977-084

Date Collected: 02/21/20
Time Collected: 14:40
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/03/20				Preparation Date: 03/02/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/02/20				Preparation Date: 02/28/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.5	1.0	mg/kg	
Barium	42.0	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	46,000	50	mg/kg	
Chromium	18.9	0.5	mg/kg	
Cobalt	11.3	0.5	mg/kg	
Copper	25.6	0.5	mg/kg	
Iron	20,300	5.0	mg/kg	
Lead	33.9	0.5	mg/kg	
Magnesium	23,400	50	mg/kg	
Manganese	365	0.5	mg/kg	
Nickel	28.1	0.5	mg/kg	
Potassium	2,350	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	1,170	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-12 (0-5)
Sample No: 20-0977-084

Date Collected: 02/21/20
Time Collected: 14:40
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Preparation Method 3050B				
Analysis Date: 03/02/20 Preparation Date: 02/28/20				
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	24.4	1.0	mg/kg	
Zinc	53.7	1.0	mg/kg	
Total Mercury Method: 7471B				
Analysis Date: 03/02/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 03/03/20 8:00				
pH @ 25°C, 1:2	8.09		Units	
TCLP Extraction Method: 1311				
Analysis Date: 02/27/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/04/20 Preparation Date: 03/03/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.5	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: 03/03/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-12 (0-5)
Sample No: 20-0977-084

Date Collected: 02/21/20
Time Collected: 14:40
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/27/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/04/20		Preparation Date: 03/02/20		
Arsenic	0.061	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.007	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.193	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.222	0.005	mg/L	
Iron	188	0.1	mg/L	
Lead	0.154	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	0.6	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 03/03/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-12 (0-5)
Sample No: 20-0977-084

Date Collected: 02/21/20
Time Collected: 14:40
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 94	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 103.6	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 95.6	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 94.3	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 75.2	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 68	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 88.9	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 88	35 - 105	
8270C	Phenol-d5 (surr)	%R: 73	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-12 (5-10)
Sample No: 20-0977-085

Date Collected: 02/21/20
Time Collected: 12:45
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	77.56		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/28/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-59-12 (5-10)
Sample No: 20-0977-085

Date Collected: 02/21/20
Time Collected: 12:45
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/28/20				
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: 03/03/20				
Preparation Date: 03/02/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-12 (5-10)
Sample No: 20-0977-085

Date Collected: 02/21/20
Time Collected: 12:45
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/03/20		Preparation Date: 03/02/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-12 (5-10)
Sample No: 20-0977-085

Date Collected: 02/21/20
Time Collected: 12:45
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/03/20				Preparation Date: 03/02/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/02/20				Preparation Date: 02/28/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.1	1.0	mg/kg	
Barium	79.0	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	47,000	50	mg/kg	
Chromium	23.5	0.5	mg/kg	
Cobalt	13.2	0.5	mg/kg	
Copper	25.3	0.5	mg/kg	
Iron	25,000	5.0	mg/kg	
Lead	13.0	0.5	mg/kg	
Magnesium	21,200	50	mg/kg	
Manganese	469	0.5	mg/kg	
Nickel	36.6	0.5	mg/kg	
Potassium	2,640	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	1,830	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-12 (5-10)
Sample No: 20-0977-085

Date Collected: 02/21/20
Time Collected: 12:45
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Preparation Method 3050B				
Analysis Date: 03/02/20 Preparation Date: 02/28/20				
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	31.3	1.0	mg/kg	
Zinc	53.1	1.0	mg/kg	
Total Mercury Method: 7471B				
Analysis Date: 03/02/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 03/03/20 8:00				
pH @ 25°C, 1:2	8.76		Units	
TCLP Extraction Method: 1311				
Analysis Date: 02/27/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/04/20 Preparation Date: 03/03/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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: 03/03/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.	Date Collected: 02/21/20
Project ID: IDOT WO# 33 81.0220509.67	Time Collected: 12:45
Sample ID: 2673V-59-12 (5-10)	Date Received: 02/21/20
Sample No: 20-0977-085	Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction Method: 1312				
Analysis Date: 02/27/20				
SPLP Metals Extraction Complete				
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/04/20 Preparation Date: 03/02/20				
Arsenic	0.083	0.010	mg/L	
Barium	1.6	1.0	mg/L	
Beryllium	0.014	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.393	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.356	0.005	mg/L	
Iron	342	0.1	mg/L	
Lead	0.144	0.005	mg/L	
Manganese	2.4	0.1	mg/L	
Nickel	0.4	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	0.009	0.005	mg/L	
Zinc	0.8	0.1	mg/L	
SPLP Mercury Method 1312 Method: 7470A				
Analysis Date: 03/03/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-12 (5-10)
Sample No: 20-0977-085

Date Collected: 02/21/20
Time Collected: 12:45
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 95.8	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.8	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 99.6	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 94.5	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 67.3	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 69.3	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 87.9	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 87	35 - 105	
8270C	Phenol-d5 (surr)	%R: 76.4	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-12 (10-13)
Sample No: 20-0977-086

Date Collected: 02/21/20
Time Collected: 12:50
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	84.81		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/28/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	20.4	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: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-12 (10-13)
Sample No: 20-0977-086

Date Collected: 02/21/20
Time Collected: 12:50
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/28/20				
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: 03/03/20				
Preparation Date: 03/02/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-12 (10-13)
Sample No: 20-0977-086

Date Collected: 02/21/20
Time Collected: 12:50
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/03/20		Preparation Date: 03/02/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-12 (10-13)
Sample No: 20-0977-086

Date Collected: 02/21/20
Time Collected: 12:50
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/03/20				Preparation Date: 03/02/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/02/20				Preparation Date: 02/28/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.5	1.0	mg/kg	
Barium	48.0	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	32,500	50	mg/kg	
Chromium	15.7	0.5	mg/kg	
Cobalt	13.1	0.5	mg/kg	
Copper	35.2	0.5	mg/kg	
Iron	22,100	5.0	mg/kg	
Lead	19.7	0.5	mg/kg	
Magnesium	21,000	50	mg/kg	
Manganese	349	0.5	mg/kg	
Nickel	33.3	0.5	mg/kg	
Potassium	1,840	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	848	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-12 (10-13)
Sample No: 20-0977-086

Date Collected: 02/21/20
Time Collected: 12:50
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/27/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/04/20		Preparation Date: 03/02/20		
Arsenic	0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.028	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.037	0.005	mg/L	
Iron	31.3	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: 03/03/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-12 (10-13)
Sample No: 20-0977-086

Date Collected: 02/21/20
Time Collected: 12:50
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 94.6	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.3	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 96.9	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 98.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 75.6	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 69.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 92.6	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 88.5	35 - 105	
8270C	Phenol-d5 (surr)	%R: 74.9	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-13 (0-5)
Sample No: 20-0977-087

Date Collected: 02/21/20
Time Collected: 12:55
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	81.22		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/28/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-59-13 (0-5)
Sample No: 20-0977-087

Date Collected: 02/21/20
Time Collected: 12:55
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/28/20				
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: 03/03/20				
Preparation Date: 03/02/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-13 (0-5)
Sample No: 20-0977-087

Date Collected: 02/21/20
Time Collected: 12:55
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/03/20		Preparation Date: 03/02/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-13 (0-5)
Sample No: 20-0977-087

Date Collected: 02/21/20
Time Collected: 12:55
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/03/20				Preparation Date: 03/02/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/02/20				Preparation Date: 02/28/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.9	1.0	mg/kg	
Barium	106	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	64,100	50	mg/kg	
Chromium	22.0	0.5	mg/kg	
Cobalt	13.3	0.5	mg/kg	
Copper	22.8	0.5	mg/kg	
Iron	23,000	5.0	mg/kg	
Lead	11.6	0.5	mg/kg	
Magnesium	30,100	50	mg/kg	
Manganese	593	0.5	mg/kg	
Nickel	39.3	0.5	mg/kg	
Potassium	2,600	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	1,860	50	mg/kg	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/21/20
Project ID:	IDOT WO# 33 81.0220509.67	Time Collected:	12:55
Sample ID:	2673V-59-13 (0-5)	Date Received:	02/21/20
Sample No:	20-0977-087	Date Reported:	03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/27/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/04/20		Preparation Date: 03/02/20		
Arsenic	0.061	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.007	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.209	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.196	0.005	mg/L	
Iron	192	0.1	mg/L	
Lead	0.079	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	0.4	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 03/03/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-13 (0-5)
Sample No: 20-0977-087

Date Collected: 02/21/20
Time Collected: 12:55
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 97.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 103.9	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 101.9	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 94.8	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 66.9	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 63.6	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 91.4	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 82.2	35 - 105	
8270C	Phenol-d5 (surr)	%R: 69.1	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-13 (5-10)
Sample No: 20-0977-088

Date Collected: 02/21/20
Time Collected: 13:00
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	75.12		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/28/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-59-13 (5-10)
Sample No: 20-0977-088

Date Collected: 02/21/20
Time Collected: 13:00
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/28/20				
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: 03/03/20				
Preparation Date: 03/02/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-13 (5-10)
Sample No: 20-0977-088

Date Collected: 02/21/20
Time Collected: 13:00
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/03/20		Preparation Date: 03/02/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-13 (5-10)
Sample No: 20-0977-088

Date Collected: 02/21/20
Time Collected: 13:00
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/03/20				Preparation Date: 03/02/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/02/20				Preparation Date: 02/28/20
Antimony	2.6	1.0	mg/kg	
Arsenic	6.6	1.0	mg/kg	
Barium	121	0.5	mg/kg	
Beryllium	0.9	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	23,400	50	mg/kg	
Chromium	25.6	0.5	mg/kg	
Cobalt	10.7	0.5	mg/kg	
Copper	25.2	0.5	mg/kg	
Iron	27,200	5.0	mg/kg	
Lead	23.8	0.5	mg/kg	
Magnesium	12,600	50	mg/kg	
Manganese	433	0.5	mg/kg	
Nickel	29.5	0.5	mg/kg	
Potassium	2,380	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	2,830	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-13 (5-10)
Sample No: 20-0977-088

Date Collected: 02/21/20
Time Collected: 13:00
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 03/02/20				Preparation Date: 02/28/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	40.4	1.0	mg/kg	
Zinc	61.7	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 03/02/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 03/03/20 8:00				
pH @ 25°C, 1:2	8.90		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/27/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/04/20				Preparation Date: 03/03/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.5	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: 03/03/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-13 (5-10)
Sample No: 20-0977-088

Date Collected: 02/21/20
Time Collected: 13:00
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/27/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/05/20		Preparation Date: 03/03/20		
Arsenic	0.024	0.010	mg/L	
Barium	1.1	1.0	mg/L	
Beryllium	0.006	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.195	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.180	0.005	mg/L	
Iron	200	0.1	mg/L	
Lead	0.082	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	0.4	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 03/03/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-13 (5-10)
Sample No: 20-0977-088

Date Collected: 02/21/20
Time Collected: 13:00
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 93.3	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 102.9	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 96.5	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 91.3	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 66.5	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 67.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 88.7	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 84	35 - 105	
8270C	Phenol-d5 (surr)	%R: 73.4	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-13 (10-15)
Sample No: 20-0977-089

Date Collected: 02/21/20
Time Collected: 13:05
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	79.27		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/28/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-59-13 (10-15)
Sample No: 20-0977-089

Date Collected: 02/21/20
Time Collected: 13:05
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/28/20				
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: 03/03/20				
Preparation Date: 03/02/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-13 (10-15)
Sample No: 20-0977-089

Date Collected: 02/21/20
Time Collected: 13:05
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/03/20		Preparation Date: 03/02/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-13 (10-15)
Sample No: 20-0977-089

Date Collected: 02/21/20
Time Collected: 13:05
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/03/20				Preparation Date: 03/02/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/02/20				Preparation Date: 02/28/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.3	1.0	mg/kg	
Barium	29.7	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	55,300	50	mg/kg	
Chromium	22.0	0.5	mg/kg	
Cobalt	13.6	0.5	mg/kg	
Copper	28.4	0.5	mg/kg	
Iron	22,300	5.0	mg/kg	
Lead	15.5	0.5	mg/kg	
Magnesium	27,300	50	mg/kg	
Manganese	396	0.5	mg/kg	
Nickel	34.6	0.5	mg/kg	
Potassium	3,140	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	1,430	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-13 (10-15)
Sample No: 20-0977-089

Date Collected: 02/21/20
Time Collected: 13:05
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 03/02/20		Method: 6010C		Preparation Method 3050B Preparation Date: 02/28/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	27.9	1.0	mg/kg	
Zinc	50.5	1.0	mg/kg	
Total Mercury Analysis Date: 03/02/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 03/03/20 8:00		Method: 9045D 2004		
pH @ 25°C, 1:2	8.71		Units	
TCLP Extraction Analysis Date: 02/27/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 03/04/20		Method: 6010C		Preparation Method 3010A Preparation Date: 03/03/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	2.0	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 Analysis Date: 03/03/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.	Date Collected: 02/21/20
Project ID: IDOT WO# 33 81.0220509.67	Time Collected: 13:05
Sample ID: 2673V-59-13 (10-15)	Date Received: 02/21/20
Sample No: 20-0977-089	Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/27/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/05/20		Preparation Date: 03/03/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.063	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.056	0.005	mg/L	
Iron	58.8	0.1	mg/L	
Lead	0.029	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: 03/03/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-13 (10-15)
Sample No: 20-0977-089

Date Collected: 02/21/20
Time Collected: 13:05
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 96	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 101.5	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 101.7	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 89.6	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 72	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 65.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 88	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 84.9	35 - 105	
8270C	Phenol-d5 (surr)	%R: 72.9	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-13 (15-20)
Sample No: 20-0977-090

Date Collected: 02/21/20
Time Collected: 13:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	81.01		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/28/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-59-13 (15-20)
Sample No: 20-0977-090

Date Collected: 02/21/20
Time Collected: 13:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/28/20				
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: 03/03/20				
Preparation Date: 03/02/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-13 (15-20)
Sample No: 20-0977-090

Date Collected: 02/21/20
Time Collected: 13:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/03/20		Preparation Date: 03/02/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-13 (15-20)
Sample No: 20-0977-090

Date Collected: 02/21/20
Time Collected: 13:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/03/20				Preparation Date: 03/02/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/02/20				Preparation Date: 02/28/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.7	1.0	mg/kg	
Barium	49.9	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	54,300	50	mg/kg	
Chromium	20.2	0.5	mg/kg	
Cobalt	12.3	0.5	mg/kg	
Copper	28.0	0.5	mg/kg	
Iron	22,100	5.0	mg/kg	
Lead	12.6	0.5	mg/kg	
Magnesium	27,600	50	mg/kg	
Manganese	432	0.5	mg/kg	
Nickel	31.0	0.5	mg/kg	
Potassium	2,700	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	1,320	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-13 (15-20)
Sample No: 20-0977-090

Date Collected: 02/21/20
Time Collected: 13:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 03/02/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/28/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	25.1	1.0	mg/kg	
Zinc	60.4	1.0	mg/kg	
Total Mercury Analysis Date: 03/02/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 03/03/20 8:00	Method: 9045D 2004			
pH @ 25°C, 1:2	8.40		Units	
TCLP Extraction Analysis Date: 02/27/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 03/04/20	Method: 6010C	Preparation Method 3010A Preparation Date: 03/03/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	1.2	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 Analysis Date: 03/03/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-13 (15-20)
Sample No: 20-0977-090

Date Collected: 02/21/20
Time Collected: 13:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/27/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/05/20		Preparation Date: 03/03/20		
Arsenic	0.015	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.116	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.112	0.005	mg/L	
Iron	106	0.1	mg/L	
Lead	0.042	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: 03/03/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-13 (15-20)
Sample No: 20-0977-090

Date Collected: 02/21/20
Time Collected: 13:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 93.4	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 98.8	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 98	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 79.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 66.1	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 69	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 85.8	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 86	35 - 105	
8270C	Phenol-d5 (surr)	%R: 76.4	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-13 (20-25)
Sample No: 20-0977-091

Date Collected: 02/21/20
Time Collected: 13:15
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	75.09		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/02/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-59-13 (20-25)
Sample No: 20-0977-091

Date Collected: 02/21/20
Time Collected: 13:15
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/02/20				
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: 03/03/20				
Preparation Date: 03/02/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-13 (20-25)
Sample No: 20-0977-091

Date Collected: 02/21/20
Time Collected: 13:15
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/03/20		Preparation Date: 03/02/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-13 (20-25)
Sample No: 20-0977-091

Date Collected: 02/21/20
Time Collected: 13:15
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/03/20				Preparation Date: 03/02/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/02/20				Preparation Date: 02/28/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.1	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	60,100	50	mg/kg	
Chromium	22.9	0.5	mg/kg	
Cobalt	11.6	0.5	mg/kg	
Copper	23.5	0.5	mg/kg	
Iron	24,400	5.0	mg/kg	
Lead	14.3	0.5	mg/kg	
Magnesium	29,700	50	mg/kg	
Manganese	397	0.5	mg/kg	
Nickel	32.0	0.5	mg/kg	
Potassium	3,090	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	684	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-13 (20-25)
Sample No: 20-0977-091

Date Collected: 02/21/20
Time Collected: 13:15
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 03/02/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/28/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	29.3	1.0	mg/kg	
Zinc	54.6	1.0	mg/kg	
Total Mercury Analysis Date: 03/02/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 03/03/20 8:00	Method: 9045D 2004			
pH @ 25°C, 1:2	8.60		Units	
TCLP Extraction Analysis Date: 02/27/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 03/04/20	Method: 6010C	Preparation Method 3010A Preparation Date: 03/03/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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 Analysis Date: 03/03/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-13 (20-25)
Sample No: 20-0977-091

Date Collected: 02/21/20
Time Collected: 13:15
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/27/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/05/20		Preparation Date: 03/03/20		
Arsenic	0.014	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.118	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.089	0.005	mg/L	
Iron	99.6	0.1	mg/L	
Lead	0.048	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: 03/03/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-13 (20-25)
Sample No: 20-0977-091

Date Collected: 02/21/20
Time Collected: 13:15
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 95.4	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 101.5	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 96.6	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 66.7	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 63	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 68.9	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 84.8	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 84.8	35 - 105	
8270C	Phenol-d5 (surr)	%R: 73.1	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-14 (0-5)
Sample No: 20-0977-092

Date Collected: 02/21/20
Time Collected: 13:20
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	81.58		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/02/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-59-14 (0-5)
Sample No: 20-0977-092

Date Collected: 02/21/20
Time Collected: 13:20
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/02/20				
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: 03/03/20				
Preparation Date: 03/02/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-14 (0-5)
Sample No: 20-0977-092

Date Collected: 02/21/20
Time Collected: 13:20
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/03/20		Preparation Date: 03/02/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-14 (0-5)
Sample No: 20-0977-092

Date Collected: 02/21/20
Time Collected: 13:20
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/03/20				Preparation Date: 03/02/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/02/20				Preparation Date: 02/28/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.7	1.0	mg/kg	
Barium	71.9	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	41,100	50	mg/kg	
Chromium	22.1	0.5	mg/kg	
Cobalt	13.7	0.5	mg/kg	
Copper	23.4	0.5	mg/kg	
Iron	25,500	5.0	mg/kg	
Lead	21.0	0.5	mg/kg	
Magnesium	20,000	50	mg/kg	
Manganese	452	0.5	mg/kg	
Nickel	31.3	0.5	mg/kg	
Potassium	2,420	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	2,540	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-14 (0-5)
Sample No: 20-0977-092

Date Collected: 02/21/20
Time Collected: 13:20
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 03/02/20		Method: 6010C		Preparation Method 3050B Preparation Date: 02/28/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	32.9	1.0	mg/kg	
Zinc	53.7	1.0	mg/kg	
Total Mercury Analysis Date: 03/02/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 03/03/20 8:00		Method: 9045D 2004		
pH @ 25°C, 1:2	8.35		Units	
TCLP Extraction Analysis Date: 02/27/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 03/04/20		Method: 6010C		Preparation Method 3010A Preparation Date: 03/03/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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 Analysis Date: 03/03/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-14 (0-5)
Sample No: 20-0977-092

Date Collected: 02/21/20
Time Collected: 13:20
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction Method: 1312				
Analysis Date: 02/27/20				
SPLP Metals Extraction Complete				
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/05/20 Preparation Date: 03/03/20				
Arsenic	0.054	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.006	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.196	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.185	0.005	mg/L	
Iron	207	0.1	mg/L	
Lead	0.100	0.005	mg/L	
Manganese	0.9	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: 03/03/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-14 (0-5)
Sample No: 20-0977-092

Date Collected: 02/21/20
Time Collected: 13:20
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 97.8	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.2	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 99.4	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 72.7	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 61.1	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 66.7	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 86.4	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 81	35 - 105	
8270C	Phenol-d5 (surr)	%R: 69.9	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-14 (5-10)
Sample No: 20-0977-093

Date Collected: 02/21/20
Time Collected: 13:25
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	80.65		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/02/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



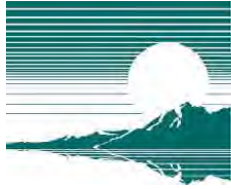
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-14 (5-10)
Sample No: 20-0977-093

Date Collected: 02/21/20
Time Collected: 13:25
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/02/20				
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: 03/03/20				
Preparation Date: 03/02/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-14 (5-10)
Sample No: 20-0977-093

Date Collected: 02/21/20
Time Collected: 13:25
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/03/20		Preparation Date: 03/02/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-14 (5-10)
Sample No: 20-0977-093

Date Collected: 02/21/20
Time Collected: 13:25
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/03/20				Preparation Date: 03/02/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/02/20				Preparation Date: 02/28/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.6	1.0	mg/kg	
Barium	75.8	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	58,800	50	mg/kg	
Chromium	22.1	0.5	mg/kg	
Cobalt	20.4	0.5	mg/kg	
Copper	33.3	0.5	mg/kg	
Iron	25,100	5.0	mg/kg	
Lead	15.3	0.5	mg/kg	
Magnesium	29,100	50	mg/kg	
Manganese	520	0.5	mg/kg	
Nickel	41.6	0.5	mg/kg	
Potassium	3,100	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	976	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-14 (5-10)
Sample No: 20-0977-093

Date Collected: 02/21/20
Time Collected: 13:25
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 03/02/20		Method: 6010C		Preparation Method 3050B Preparation Date: 02/28/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	28.4	1.0	mg/kg	
Zinc	51.2	1.0	mg/kg	
Total Mercury Analysis Date: 03/02/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 03/03/20 8:00		Method: 9045D 2004		
pH @ 25°C, 1:2	8.38		Units	
TCLP Extraction Analysis Date: 02/27/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 03/04/20		Method: 6010C		Preparation Method 3010A Preparation Date: 03/03/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	2.1	0.1	mg/L	
Lead	0.006	0.005	mg/L	
Manganese	10.5	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	0.012	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 03/03/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-14 (5-10)
Sample No: 20-0977-093

Date Collected: 02/21/20
Time Collected: 13:25
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/27/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/05/20		Preparation Date: 03/03/20		
Arsenic	< 0.010	0.010	mg/L	
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	0.013	0.005	mg/L	
Iron	18.7	0.1	mg/L	
Lead	0.007	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: 03/03/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-14 (5-10)
Sample No: 20-0977-093

Date Collected: 02/21/20
Time Collected: 13:25
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 94.9	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 102.9	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 97.6	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 70.8	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 66.5	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 74.1	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 85.4	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 89.9	35 - 105	
8270C	Phenol-d5 (surr)	%R: 76.4	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-14 (10-13)
Sample No: 20-0977-094

Date Collected: 02/21/20
Time Collected: 13:30
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	81.50		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/02/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-59-14 (10-13)
Sample No: 20-0977-094

Date Collected: 02/21/20
Time Collected: 13:30
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/02/20				
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: 03/03/20				
Preparation Date: 03/02/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-14 (10-13)
Sample No: 20-0977-094

Date Collected: 02/21/20
Time Collected: 13:30
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/03/20		Preparation Date: 03/02/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-14 (10-13)
Sample No: 20-0977-094

Date Collected: 02/21/20
Time Collected: 13:30
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/03/20				Preparation Date: 03/02/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/02/20				Preparation Date: 02/28/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.3	1.0	mg/kg	
Barium	61.5	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	60,100	50	mg/kg	
Chromium	23.6	0.5	mg/kg	
Cobalt	11.6	0.5	mg/kg	
Copper	20.7	0.5	mg/kg	
Iron	23,200	5.0	mg/kg	
Lead	10.4	0.5	mg/kg	
Magnesium	28,100	50	mg/kg	
Manganese	443	0.5	mg/kg	
Nickel	32.0	0.5	mg/kg	
Potassium	3,370	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	1,050	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-14 (10-13)
Sample No: 20-0977-094

Date Collected: 02/21/20
Time Collected: 13:30
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 03/02/20				Preparation Date: 02/28/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	28.9	1.0	mg/kg	
Zinc	50.0	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 03/02/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 03/03/20 8:00				
pH @ 25°C, 1:2	8.59		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/27/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/04/20				Preparation Date: 03/03/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	5.8	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: 03/03/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-14 (10-13)
Sample No: 20-0977-094

Date Collected: 02/21/20
Time Collected: 13:30
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/27/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/05/20		Preparation Date: 03/03/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.036	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.027	0.005	mg/L	
Iron	29.0	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: 03/03/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-14 (10-13)
Sample No: 20-0977-094

Date Collected: 02/21/20
Time Collected: 13:30
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> Low High	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 96.4	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 103.5	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 101.5	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 72.8	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 71	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 73.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 90.3	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 88.7	35 - 105	
8270C	Phenol-d5 (surr)	%R: 77.8	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-16 (0-5)
Sample No: 20-0977-098

Date Collected: 02/21/20
Time Collected: 13:50
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	84.57		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/02/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-59-16 (0-5)
Sample No: 20-0977-098

Date Collected: 02/21/20
Time Collected: 13:50
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/02/20				
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: 03/03/20				
Preparation Date: 03/02/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-16 (0-5)
Sample No: 20-0977-098

Date Collected: 02/21/20
Time Collected: 13:50
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/03/20		Preparation Date: 03/02/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-16 (0-5)
Sample No: 20-0977-098

Date Collected: 02/21/20
Time Collected: 13:50
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/03/20				Preparation Date: 03/02/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/02/20				Preparation Date: 02/28/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.8	1.0	mg/kg	
Barium	76.6	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	56,000	50	mg/kg	
Chromium	23.9	0.5	mg/kg	
Cobalt	11.9	0.5	mg/kg	
Copper	31.2	0.5	mg/kg	
Iron	26,000	5.0	mg/kg	
Lead	14.7	0.5	mg/kg	
Magnesium	25,200	50	mg/kg	
Manganese	390	0.5	mg/kg	
Nickel	34.7	0.5	mg/kg	
Potassium	2,680	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	2,840	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-16 (0-5)
Sample No: 20-0977-098

Date Collected: 02/21/20
Time Collected: 13:50
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Preparation Method 3050B				
Analysis Date: 03/02/20 Preparation Date: 02/28/20				
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	30.0	1.0	mg/kg	
Zinc	56.0	1.0	mg/kg	
Total Mercury Method: 7471B				
Analysis Date: 03/03/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 03/03/20 8:00				
pH @ 25°C, 1:2	7.90		Units	
TCLP Extraction Method: 1311				
Analysis Date: 02/27/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/04/20 Preparation Date: 03/03/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	2.7	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: 03/03/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/21/20
Project ID:	IDOT WO# 33 81.0220509.67	Time Collected:	13:50
Sample ID:	2673V-59-16 (0-5)	Date Received:	02/21/20
Sample No:	20-0977-098	Date Reported:	03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/27/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/05/20		Preparation Date: 03/03/20		
Arsenic	0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.049	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.052	0.005	mg/L	
Iron	50.2	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: 03/03/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-16 (0-5)
Sample No: 20-0977-098

Date Collected: 02/21/20
Time Collected: 13:50
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 97.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 103.7	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 99.9	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 74.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 71	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 71.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 87.8	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 87.8	35 - 105	
8270C	Phenol-d5 (surr)	%R: 74.6	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-16 (5-10)
Sample No: 20-0977-099

Date Collected: 02/21/20
Time Collected: 13:55
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	78.89		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/02/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-59-16 (5-10)
Sample No: 20-0977-099

Date Collected: 02/21/20
Time Collected: 13:55
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/02/20				
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: 03/03/20				
Preparation Date: 03/02/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-16 (5-10)
Sample No: 20-0977-099

Date Collected: 02/21/20
Time Collected: 13:55
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/03/20		Preparation Date: 03/02/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-16 (5-10)
Sample No: 20-0977-099

Date Collected: 02/21/20
Time Collected: 13:55
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/03/20				Preparation Date: 03/02/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/02/20				Preparation Date: 03/02/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.4	1.0	mg/kg	
Barium	38.0	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	17,200	50	mg/kg	
Chromium	18.0	0.5	mg/kg	
Cobalt	20.8	0.5	mg/kg	
Copper	23.7	0.5	mg/kg	
Iron	20,300	5.0	mg/kg	
Lead	19.4	0.5	mg/kg	
Magnesium	10,200	50	mg/kg	
Manganese	616	0.5	mg/kg	
Nickel	37.4	0.5	mg/kg	
Potassium	2,050	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	1,860	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-16 (5-10)
Sample No: 20-0977-099

Date Collected: 02/21/20
Time Collected: 13:55
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 03/02/20	Method: 6010C	Preparation Method 3050B Preparation Date: 03/02/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	24.9	1.0	mg/kg	
Zinc	50.4	1.0	mg/kg	
Total Mercury Analysis Date: 03/03/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 03/03/20 8:00	Method: 9045D 2004			
pH @ 25°C, 1:2	8.50		Units	
TCLP Extraction Analysis Date: 02/27/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 03/04/20	Method: 6010C	Preparation Method 3010A Preparation Date: 03/03/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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 Analysis Date: 03/03/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.	Date Collected: 02/21/20
Project ID: IDOT WO# 33 81.0220509.67	Time Collected: 13:55
Sample ID: 2673V-59-16 (5-10)	Date Received: 02/21/20
Sample No: 20-0977-099	Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/27/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/05/20		Preparation Date: 03/03/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.008	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.009	0.005	mg/L	
Iron	7.5	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: 03/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-16 (5-10)
Sample No: 20-0977-099

Date Collected: 02/21/20
Time Collected: 13:55
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 94.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 103.7	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 95.3	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 76.6	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 70.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 77.2	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 91.6	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 95.3	35 - 105	
8270C	Phenol-d5 (surr)	%R: 81	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-17 (0-5)
Sample No: 20-0977-100

Date Collected: 02/21/20
Time Collected: 14:00
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	80.68		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/02/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-59-17 (0-5)
Sample No: 20-0977-100

Date Collected: 02/21/20
Time Collected: 14:00
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/02/20				
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: 03/03/20				
Preparation Date: 03/02/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-17 (0-5)
Sample No: 20-0977-100

Date Collected: 02/21/20
Time Collected: 14:00
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/03/20		Preparation Date: 03/02/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-17 (0-5)
Sample No: 20-0977-100

Date Collected: 02/21/20
Time Collected: 14:00
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/03/20				Preparation Date: 03/02/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/02/20				Preparation Date: 03/02/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.5	1.0	mg/kg	
Barium	58.9	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	29,500	50	mg/kg	
Chromium	21.1	0.5	mg/kg	
Cobalt	7.7	0.5	mg/kg	
Copper	24.0	0.5	mg/kg	
Iron	21,000	5.0	mg/kg	
Lead	9.6	0.5	mg/kg	
Magnesium	18,100	50	mg/kg	
Manganese	252	0.5	mg/kg	
Nickel	25.3	0.5	mg/kg	
Potassium	1,980	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	2,810	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-17 (0-5)
Sample No: 20-0977-100

Date Collected: 02/21/20
Time Collected: 14:00
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 03/02/20		Method: 6010C		Preparation Method 3050B Preparation Date: 03/02/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	23.9	1.0	mg/kg	
Zinc	48.8	1.0	mg/kg	
Total Mercury Analysis Date: 03/03/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 03/03/20 8:00		Method: 9045D 2004		
pH @ 25°C, 1:2	8.39		Units	
TCLP Extraction Analysis Date: 02/27/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 03/04/20		Method: 6010C		Preparation Method 3010A Preparation Date: 03/03/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.5	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 Analysis Date: 03/03/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/21/20
Project ID:	IDOT WO# 33 81.0220509.67	Time Collected:	14:00
Sample ID:	2673V-59-17 (0-5)	Date Received:	02/21/20
Sample No:	20-0977-100	Date Reported:	03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction Method: 1312				
Analysis Date: 02/27/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/05/20 Preparation Date: 03/03/20				
Arsenic	0.097	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.009	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.270	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.328	0.005	mg/L	
Iron	301	0.1	mg/L	
Lead	0.120	0.005	mg/L	
Manganese	1.8	0.1	mg/L	
Nickel	0.3	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	0.008	0.005	mg/L	
Zinc	0.6	0.1	mg/L	
SPLP Mercury Method 1312 Method: 7470A				
Analysis Date: 03/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-17 (0-5)
Sample No: 20-0977-100

Date Collected: 02/21/20
Time Collected: 14:00
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 98.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 102.9	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 101.9	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 80.8	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 68.8	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 75.4	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 90.5	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 91.2	35 - 105	
8270C	Phenol-d5 (surr)	%R: 77.9	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-17 (5-10)
Sample No: 20-0977-101

Date Collected: 02/21/20
Time Collected: 14:05
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	82.42		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/02/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-59-17 (5-10)
Sample No: 20-0977-101

Date Collected: 02/21/20
Time Collected: 14:05
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/02/20				
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: 03/03/20				
Preparation Date: 03/02/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-17 (5-10)
Sample No: 20-0977-101

Date Collected: 02/21/20
Time Collected: 14:05
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/03/20		Preparation Date: 03/02/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-17 (5-10)
Sample No: 20-0977-101

Date Collected: 02/21/20
Time Collected: 14:05
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/03/20				Preparation Date: 03/02/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/02/20				Preparation Date: 03/02/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.1	1.0	mg/kg	
Barium	40.3	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	48,400	50	mg/kg	
Chromium	19.8	0.5	mg/kg	
Cobalt	10.7	0.5	mg/kg	
Copper	24.3	0.5	mg/kg	
Iron	21,000	5.0	mg/kg	
Lead	10.6	0.5	mg/kg	
Magnesium	22,000	50	mg/kg	
Manganese	365	0.5	mg/kg	
Nickel	30.8	0.5	mg/kg	
Potassium	2,490	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	1,270	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-17 (5-10)
Sample No: 20-0977-101

Date Collected: 02/21/20
Time Collected: 14:05
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/27/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/05/20		Preparation Date: 03/03/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.045	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.044	0.005	mg/L	
Iron	47.6	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: 03/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-17 (5-10)
Sample No: 20-0977-101

Date Collected: 02/21/20
Time Collected: 14:05
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low 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: 99.1	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 82.6	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 70.3	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 74.7	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 94.2	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 93.2	35 - 105	
8270C	Phenol-d5 (surr)	%R: 76.1	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-17 (10-13)
Sample No: 20-0977-102

Date Collected: 02/21/20
Time Collected: 14:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	82.30		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/02/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-59-17 (10-13)
Sample No: 20-0977-102

Date Collected: 02/21/20
Time Collected: 14:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/02/20				
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: 03/03/20				
Preparation Date: 03/02/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-17 (10-13)
Sample No: 20-0977-102

Date Collected: 02/21/20
Time Collected: 14:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/03/20		Preparation Date: 03/02/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-17 (10-13)
Sample No: 20-0977-102

Date Collected: 02/21/20
Time Collected: 14:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/03/20				Preparation Date: 03/02/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/02/20				Preparation Date: 03/02/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.5	1.0	mg/kg	
Barium	55.9	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	47,700	50	mg/kg	
Chromium	19.3	0.5	mg/kg	
Cobalt	8.8	0.5	mg/kg	
Copper	21.6	0.5	mg/kg	
Iron	24,000	5.0	mg/kg	
Lead	17.4	0.5	mg/kg	
Magnesium	22,000	50	mg/kg	
Manganese	249	0.5	mg/kg	
Nickel	30.9	0.5	mg/kg	
Potassium	2,500	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	857	50	mg/kg	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/21/20
Project ID:	IDOT WO# 33 81.0220509.67	Time Collected:	14:10
Sample ID:	2673V-59-17 (10-13)	Date Received:	02/21/20
Sample No:	20-0977-102	Date Reported:	03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 03/02/20	Method: 6010C		Preparation Method 3050B Preparation Date: 03/02/20	
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	25.2	1.0	mg/kg	
Zinc	50.9	1.0	mg/kg	
Total Mercury Analysis Date: 03/03/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 03/03/20 9:15	Method: 9045D 2004			
pH @ 25°C, 1:2	7.97		Units	
TCLP Extraction Analysis Date: 02/27/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 03/04/20	Method: 6010C		Preparation Method 3010A Preparation Date: 03/03/20	
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.9	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 Analysis Date: 03/04/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-17 (10-13)
Sample No: 20-0977-102

Date Collected: 02/21/20
Time Collected: 14:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/27/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/05/20		Preparation Date: 03/03/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	0.5	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: 03/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-17 (10-13)
Sample No: 20-0977-102

Date Collected: 02/21/20
Time Collected: 14:10
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 96.4	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 100.1	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 102.4	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 78.3	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 73.5	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 76.3	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 89	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 93.9	35 - 105	
8270C	Phenol-d5 (surr)	%R: 78.4	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-18 (0-5)
Sample No: 20-0977-103

Date Collected: 02/21/20
Time Collected: 14:15
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	85.73		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/03/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-59-18 (0-5)
Sample No: 20-0977-103

Date Collected: 02/21/20
Time Collected: 14:15
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/03/20				
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: 03/04/20				
Preparation Date: 03/02/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	641	330	ug/kg	
Benzo(a)pyrene	845	90	ug/kg	
Benzo(b)fluoranthene	792	330	ug/kg	
Benzo(k)fluoranthene	1,040	330	ug/kg	
Benzo(ghi)perylene	459	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	780	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-18 (0-5)
Sample No: 20-0977-103

Date Collected: 02/21/20
Time Collected: 14:15
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/04/20		Preparation Date: 03/02/20		
Dibenzo(a,h)anthracene	100	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	1,480	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	490	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-18 (0-5)
Sample No: 20-0977-103

Date Collected: 02/21/20
Time Collected: 14:15
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/04/20				Preparation Date: 03/02/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	625	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	1,260	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/02/20				Preparation Date: 03/02/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.4	1.0	mg/kg	
Barium	39.2	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	87,000	50	mg/kg	
Chromium	30.3	0.5	mg/kg	
Cobalt	7.4	0.5	mg/kg	
Copper	38.9	0.5	mg/kg	
Iron	15,100	5.0	mg/kg	
Lead	178	0.5	mg/kg	
Magnesium	52,200	50	mg/kg	
Manganese	284	0.5	mg/kg	
Nickel	17.8	0.5	mg/kg	
Potassium	1,510	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	561	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-18 (0-5)
Sample No: 20-0977-103

Date Collected: 02/21/20
Time Collected: 14:15
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Preparation Method 3050B				
Analysis Date: 03/02/20 Preparation Date: 03/02/20				
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	16.8	1.0	mg/kg	
Zinc	114	1.0	mg/kg	
Total Mercury Method: 7471B				
Analysis Date: 03/03/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 03/03/20 9:15				
pH @ 25°C, 1:2	8.24		Units	
TCLP Extraction Method: 1311				
Analysis Date: 02/27/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/04/20 Preparation Date: 03/03/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.9	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: 03/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/21/20
Project ID:	IDOT WO# 33 81.0220509.67	Time Collected:	14:15
Sample ID:	2673V-59-18 (0-5)	Date Received:	02/21/20
Sample No:	20-0977-103	Date Reported:	03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/27/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/05/20		Preparation Date: 03/03/20		
Arsenic	0.030	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.072	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.159	0.005	mg/L	
Iron	77.1	0.1	mg/L	
Lead	0.469	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	0.5	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 03/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-18 (0-5)
Sample No: 20-0977-103

Date Collected: 02/21/20
Time Collected: 14:15
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 99.8	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 96.7	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 112.1	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 105.6	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 90.7	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 68.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 105	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 95.9	35 - 105	
8270C	Phenol-d5 (surr)	%R: 80.3	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-18 (5-10)
Sample No: 20-0977-104

Date Collected: 02/21/20
Time Collected: 14:20
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	85.04		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/03/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-59-18 (5-10)
Sample No: 20-0977-104

Date Collected: 02/21/20
Time Collected: 14:20
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/03/20				
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: 03/04/20				
Preparation Date: 03/02/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

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Sample ID: 2673V-59-18 (5-10)
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Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/04/20		Preparation Date: 03/02/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

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Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/04/20				Preparation Date: 03/02/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/02/20				Preparation Date: 03/02/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.8	1.0	mg/kg	
Barium	43.5	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	43,100	50	mg/kg	
Chromium	16.4	0.5	mg/kg	
Cobalt	9.4	0.5	mg/kg	
Copper	21.5	0.5	mg/kg	
Iron	18,200	5.0	mg/kg	
Lead	11.1	0.5	mg/kg	
Magnesium	21,600	50	mg/kg	
Manganese	333	0.5	mg/kg	
Nickel	26.1	0.5	mg/kg	
Potassium	2,090	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	740	50	mg/kg	



Analytical Report

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Date Collected: 02/21/20
Time Collected: 14:20
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Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 03/02/20	Method: 6010C	Preparation Method 3050B Preparation Date: 03/02/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	20.3	1.0	mg/kg	
Zinc	41.3	1.0	mg/kg	
Total Mercury Analysis Date: 03/03/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 03/03/20 9:15	Method: 9045D 2004			
pH @ 25°C, 1:2	8.63		Units	
TCLP Extraction Analysis Date: 02/27/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 03/05/20	Method: 6010C	Preparation Method 3010A Preparation Date: 03/04/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	0.007	0.005	mg/L	
Manganese	3.9	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 Analysis Date: 03/04/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-59-18 (5-10)
Sample No: 20-0977-104

Date Collected: 02/21/20
Time Collected: 14:20
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction Method: 1312				
Analysis Date: 02/27/20				
SPLP Metals Extraction Complete				
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/05/20 Preparation Date: 03/03/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.016	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.018	0.005	mg/L	
Iron	14.3	0.1	mg/L	
Lead	0.013	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: 03/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Sample ID: 2673V-59-18 (5-10)
Sample No: 20-0977-104

Date Collected: 02/21/20
Time Collected: 14:20
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 98.4	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 100.2	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 105.9	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 77.1	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 68.2	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 71.4	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 90.4	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 86.1	35 - 105	
8270C	Phenol-d5 (surr)	%R: 76.3	50 - 100	



March 16, 2020

Mr. Shane Cuplin
HUFF & HUFF INC.
915 Harger Road
Suite 330
Oak Brook, IL 60523

Project ID: IDOT WO 33 East Avenue 81.0220509.67
First Environmental File ID: 20-1014
Date Received: February 25, 2020

Dear Mr. Shane Cuplin:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 1002922019-1: effective 08/22/2019 through 03/31/2020.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Ryan Gerrick
Project Manager



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-7-01 (0-5)
Sample No: 20-1014-001

Date Collected: 02/24/20
Time Collected: 14:20
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/26/20				
Total Solids	79.08		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/03/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-7-01 (0-5)
Sample No: 20-1014-001

Date Collected: 02/24/20
Time Collected: 14:20
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/03/20				
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: 03/04/20				
Preparation Date: 03/03/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-7-01 (0-5)
Sample No: 20-1014-001

Date Collected: 02/24/20
Time Collected: 14:20
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/04/20		Preparation Date: 03/03/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



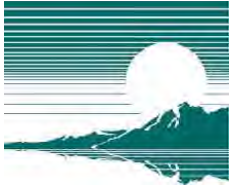
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-7-01 (0-5)
Sample No: 20-1014-001

Date Collected: 02/24/20
Time Collected: 14:20
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/04/20				Preparation Date: 03/03/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/02/20				Preparation Date: 03/02/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.1	1.0	mg/kg	
Barium	81.3	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	24,800	50	mg/kg	
Chromium	18.9	0.5	mg/kg	
Cobalt	9.8	0.5	mg/kg	
Copper	27.9	0.5	mg/kg	
Iron	19,800	5.0	mg/kg	
Lead	38.5	0.5	mg/kg	
Magnesium	13,500	50	mg/kg	
Manganese	440	0.5	mg/kg	
Nickel	26.7	0.5	mg/kg	
Potassium	2,160	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	1,250	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-7-01 (0-5)
Sample No: 20-1014-001

Date Collected: 02/24/20
Time Collected: 14:20
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 03/02/20				Preparation Date: 03/02/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	25.6	1.0	mg/kg	
Zinc	61.2	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 03/04/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 03/03/20 9:15				
pH @ 25°C, 1:2	8.86		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/27/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/06/20				Preparation Date: 03/04/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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: 03/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/24/20

Project ID: IDOT WO 33 East Avenue 81.0220509.67

Time Collected: 14:20

Sample ID: 2673V-7-01 (0-5)

Date Received: 02/25/20

Sample No: 20-1014-001

Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/27/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/06/20		Preparation Date: 03/04/20		
Arsenic	0.045	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.122	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.138	0.005	mg/L	
Iron	140	0.1	mg/L	
Lead	0.124	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	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 03/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-7-01 (0-5)
Sample No: 20-1014-001

Date Collected: 02/24/20
Time Collected: 14:20
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 99.4	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 97.7	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 111.4	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 79	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 70.8	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 61.6	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 93.8	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 85.2	35 - 105	
8270C	Phenol-d5 (surr)	%R: 70.7	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-7-01 (5-11)
Sample No: 20-1014-002

Date Collected: 02/24/20
Time Collected: 14:25
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/26/20				
Total Solids	81.01		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/03/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	5.9	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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: 02/24/20

Project ID: IDOT WO 33 East Avenue 81.0220509.67

Time Collected: 14:25

Sample ID: 2673V-7-01 (5-11)

Date Received: 02/25/20

Sample No: 20-1014-002

Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/03/20				
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: 03/04/20				
Preparation Date: 03/03/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-7-01 (5-11)
Sample No: 20-1014-002

Date Collected: 02/24/20
Time Collected: 14:25
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/04/20		Preparation Date: 03/03/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-7-01 (5-11)
Sample No: 20-1014-002

Date Collected: 02/24/20
Time Collected: 14:25
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/04/20				Preparation Date: 03/03/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/02/20				Preparation Date: 03/02/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.8	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	30,400	50	mg/kg	
Chromium	12.2	0.5	mg/kg	
Cobalt	7.0	0.5	mg/kg	
Copper	16.4	0.5	mg/kg	
Iron	14,500	5.0	mg/kg	
Lead	9.5	0.5	mg/kg	
Magnesium	15,800	50	mg/kg	
Manganese	325	0.5	mg/kg	
Nickel	18.5	0.5	mg/kg	
Potassium	1,780	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	632	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-7-01 (5-11)
Sample No: 20-1014-002

Date Collected: 02/24/20
Time Collected: 14:25
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Preparation Method 3050B				
Analysis Date: 03/02/20 Preparation Date: 03/02/20				
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	16.3	1.0	mg/kg	
Zinc	34.6	1.0	mg/kg	
Total Mercury Method: 7471B				
Analysis Date: 03/04/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 03/03/20 9:15				
pH @ 25°C, 1:2	8.41		Units	
TCLP Extraction Method: 1311				
Analysis Date: 02/27/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/06/20 Preparation Date: 03/04/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	7.4	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: 03/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-7-01 (5-11)
Sample No: 20-1014-002

Date Collected: 02/24/20
Time Collected: 14:25
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction Method: 1312				
Analysis Date: 02/27/20				
SPLP Metals Extraction Complete				
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/05/20 Preparation Date: 03/03/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.018	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.020	0.005	mg/L	
Iron	20.4	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: 03/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-7-01 (5-11)
Sample No: 20-1014-002

Date Collected: 02/24/20
Time Collected: 14:25
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 94.6	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 96	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 103.6	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 73.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 62.5	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 67.7	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 92	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 76.8	35 - 105	
8270C	Phenol-d5 (surr)	%R: 72.2	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-7-02 (0-5)
Sample No: 20-1014-003

Date Collected: 02/24/20
Time Collected: 14:30
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/26/20				
Total Solids	80.87		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/03/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	8.3	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-7-02 (0-5)
Sample No: 20-1014-003

Date Collected: 02/24/20
Time Collected: 14:30
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/03/20				
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: 03/04/20				
Preparation Date: 03/03/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	246	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	442	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-7-02 (0-5)
Sample No: 20-1014-003

Date Collected: 02/24/20
Time Collected: 14:30
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/04/20		Preparation Date: 03/03/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	437	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-7-02 (0-5)
Sample No: 20-1014-003

Date Collected: 02/24/20
Time Collected: 14:30
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/04/20				Preparation Date: 03/03/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	505	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/02/20				Preparation Date: 03/02/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.0	1.0	mg/kg	
Barium	61.0	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	39,700	50	mg/kg	
Chromium	20.5	0.5	mg/kg	
Cobalt	11.8	0.5	mg/kg	
Copper	24.4	0.5	mg/kg	
Iron	23,200	5.0	mg/kg	
Lead	15.1	0.5	mg/kg	
Magnesium	19,800	50	mg/kg	
Manganese	462	0.5	mg/kg	
Nickel	31.3	0.5	mg/kg	
Potassium	2,460	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	1,300	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-7-02 (0-5)
Sample No: 20-1014-003

Date Collected: 02/24/20
Time Collected: 14:30
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 03/02/20		Method: 6010C		Preparation Method 3050B Preparation Date: 03/02/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	27.1	1.0	mg/kg	
Zinc	51.0	1.0	mg/kg	
Total Mercury Analysis Date: 03/04/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 03/03/20 9:15		Method: 9045D 2004		
pH @ 25°C, 1:2	8.50		Units	
TCLP Extraction Analysis Date: 02/27/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 03/06/20		Method: 6010C		Preparation Method 3010A Preparation Date: 03/04/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	5.9	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 Analysis Date: 03/04/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/24/20

Project ID: IDOT WO 33 East Avenue 81.0220509.67

Time Collected: 14:30

Sample ID: 2673V-7-02 (0-5)

Date Received: 02/25/20

Sample No: 20-1014-003

Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/27/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/05/20		Preparation Date: 03/03/20		
Arsenic	0.032	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.129	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.156	0.005	mg/L	
Iron	145	0.1	mg/L	
Lead	0.076	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	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 03/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-7-02 (0-5)
Sample No: 20-1014-003

Date Collected: 02/24/20
Time Collected: 14:30
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 98.7	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 100.8	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 110.4	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 114.5	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 90.3	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 81.1	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 97.8	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 104.2	35 - 105	
8270C	Phenol-d5 (surr)	%R: 87	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-7-02 (5-11)
Sample No: 20-1014-004

Date Collected: 02/24/20
Time Collected: 14:35
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/26/20				
Total Solids	79.37		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/03/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-7-02 (5-11)
Sample No: 20-1014-004

Date Collected: 02/24/20
Time Collected: 14:35
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/03/20				
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: 03/04/20				
Preparation Date: 03/03/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-7-02 (5-11)
Sample No: 20-1014-004

Date Collected: 02/24/20
Time Collected: 14:35
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/04/20		Preparation Date: 03/03/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-7-02 (5-11)
Sample No: 20-1014-004

Date Collected: 02/24/20
Time Collected: 14:35
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/04/20				Preparation Date: 03/03/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/02/20				Preparation Date: 03/02/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	9.1	1.0	mg/kg	
Barium	57.6	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	22,900	50	mg/kg	
Chromium	19.1	0.5	mg/kg	
Cobalt	12.7	0.5	mg/kg	
Copper	31.0	0.5	mg/kg	
Iron	24,600	5.0	mg/kg	
Lead	15.0	0.5	mg/kg	
Magnesium	15,100	50	mg/kg	
Manganese	302	0.5	mg/kg	
Nickel	32.4	0.5	mg/kg	
Potassium	1,960	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	778	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-7-02 (5-11)
Sample No: 20-1014-004

Date Collected: 02/24/20
Time Collected: 14:35
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 03/02/20				Preparation Date: 03/02/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	25.4	1.0	mg/kg	
Zinc	51.5	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 03/04/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 03/03/20 9:15				
pH @ 25°C, 1:2	8.05		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/27/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/06/20				Preparation Date: 03/04/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	4.3	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: 03/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-7-02 (5-11)
Sample No: 20-1014-004

Date Collected: 02/24/20
Time Collected: 14:35
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/27/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/05/20		Preparation Date: 03/03/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.005	0.005	mg/L	
Iron	4.0	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: 03/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-7-02 (5-11)
Sample No: 20-1014-004

Date Collected: 02/24/20
Time Collected: 14:35
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 99.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 96.6	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 107.6	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 77.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 63	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 69.7	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 89.4	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 82.1	35 - 105	
8270C	Phenol-d5 (surr)	%R: 73.2	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-8-02 (0-5)
Sample No: 20-1014-007

Date Collected: 02/24/20
Time Collected: 13:35
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/26/20				
Total Solids	75.73		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/03/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-8-02 (0-5)
Sample No: 20-1014-007

Date Collected: 02/24/20
Time Collected: 13:35
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/03/20				
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: 03/04/20				
Preparation Date: 03/03/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-8-02 (0-5)
Sample No: 20-1014-007

Date Collected: 02/24/20
Time Collected: 13:35
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/04/20		Preparation Date: 03/03/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-8-02 (0-5)
Sample No: 20-1014-007

Date Collected: 02/24/20
Time Collected: 13:35
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/04/20				Preparation Date: 03/03/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/03/20				Preparation Date: 03/03/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.9	1.0	mg/kg	
Barium	114	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	30,700	50	mg/kg	
Chromium	25.2	0.5	mg/kg	
Cobalt	13.3	0.5	mg/kg	
Copper	25.6	0.5	mg/kg	
Iron	28,400	5.0	mg/kg	
Lead	15.5	0.5	mg/kg	
Magnesium	17,400	50	mg/kg	
Manganese	683	0.5	mg/kg	
Nickel	33.7	0.5	mg/kg	
Potassium	2,170	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	544	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-8-02 (0-5)
Sample No: 20-1014-007

Date Collected: 02/24/20
Time Collected: 13:35
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 03/03/20		Method: 6010C		Preparation Method 3050B Preparation Date: 03/03/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	34.0	1.0	mg/kg	
Zinc	58.0	1.0	mg/kg	
Total Mercury Analysis Date: 03/04/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 03/03/20 9:15		Method: 9045D 2004		
pH @ 25°C, 1:2	8.33		Units	
TCLP Extraction Analysis Date: 02/27/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 03/06/20		Method: 6010C		Preparation Method 3010A Preparation Date: 03/04/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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 Analysis Date: 03/04/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/24/20

Project ID: IDOT WO 33 East Avenue 81.0220509.67

Time Collected: 13:35

Sample ID: 2673V-8-02 (0-5)

Date Received: 02/25/20

Sample No: 20-1014-007

Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/27/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/05/20		Preparation Date: 03/03/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.025	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.024	0.005	mg/L	
Iron	23.5	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: 03/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-8-02 (0-5)
Sample No: 20-1014-007

Date Collected: 02/24/20
Time Collected: 13:35
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 96.7	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 96.7	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 103.9	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 76.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 67.9	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 60.9	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 94.2	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 84.7	35 - 105	
8270C	Phenol-d5 (surr)	%R: 72.4	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/24/20

Project ID: IDOT WO 33 East Avenue 81.0220509.67

Time Collected: 13:40

Sample ID: 2673V-8-02 (5-11)

Date Received: 02/25/20

Sample No: 20-1014-008

Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/26/20				
Total Solids	83.82		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/03/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-8-02 (5-11)
Sample No: 20-1014-008

Date Collected: 02/24/20
Time Collected: 13:40
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/03/20				
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: 03/04/20				
Preparation Date: 03/03/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-8-02 (5-11)
Sample No: 20-1014-008

Date Collected: 02/24/20
Time Collected: 13:40
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/04/20		Preparation Date: 03/03/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-8-02 (5-11)
Sample No: 20-1014-008

Date Collected: 02/24/20
Time Collected: 13:40
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/04/20				Preparation Date: 03/03/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/03/20				Preparation Date: 03/03/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.6	1.0	mg/kg	
Barium	52.8	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	54,300	50	mg/kg	
Chromium	21.7	0.5	mg/kg	
Cobalt	8.9	0.5	mg/kg	
Copper	24.8	0.5	mg/kg	
Iron	26,600	5.0	mg/kg	
Lead	11.5	0.5	mg/kg	
Magnesium	25,000	50	mg/kg	
Manganese	268	0.5	mg/kg	
Nickel	27.1	0.5	mg/kg	
Potassium	2,640	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	728	50	mg/kg	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/24/20
Project ID:	IDOT WO 33 East Avenue 81.0220509.67	Time Collected:	13:40
Sample ID:	2673V-8-02 (5-11)	Date Received:	02/25/20
Sample No:	20-1014-008	Date Reported:	03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/27/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/05/20		Preparation Date: 03/03/20		
Arsenic	0.034	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.112	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.114	0.005	mg/L	
Iron	121	0.1	mg/L	
Lead	0.050	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	0.2	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 03/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-8-02 (5-11)
Sample No: 20-1014-008

Date Collected: 02/24/20
Time Collected: 13:40
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 98.6	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 98	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 110.5	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 80	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 69.1	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 71.1	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 92.3	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 86.8	35 - 105	
8270C	Phenol-d5 (surr)	%R: 76.5	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-8-03 (0-5)
Sample No: 20-1014-009

Date Collected: 02/24/20
Time Collected: 14:00
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/27/20				
Total Solids	86.13		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/03/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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: 02/24/20

Project ID: IDOT WO 33 East Avenue 81.0220509.67

Time Collected: 14:00

Sample ID: 2673V-8-03 (0-5)

Date Received: 02/25/20

Sample No: 20-1014-009

Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/03/20				
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: 03/04/20				
Preparation Date: 03/03/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	211	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-8-03 (0-5)
Sample No: 20-1014-009

Date Collected: 02/24/20
Time Collected: 14:00
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/04/20		Preparation Date: 03/03/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	394	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

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Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-8-03 (0-5)
Sample No: 20-1014-009

Date Collected: 02/24/20
Time Collected: 14:00
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/04/20				Preparation Date: 03/03/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/03/20				Preparation Date: 03/03/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.9	1.0	mg/kg	
Barium	42.8	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	77,800	50	mg/kg	
Chromium	14.0	0.5	mg/kg	
Cobalt	7.0	0.5	mg/kg	
Copper	27.4	0.5	mg/kg	
Iron	17,000	5.0	mg/kg	
Lead	27.6	0.5	mg/kg	
Magnesium	44,800	50	mg/kg	
Manganese	350	0.5	mg/kg	
Nickel	18.7	0.5	mg/kg	
Potassium	1,830	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	1,270	50	mg/kg	



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Sample ID: 2673V-8-03 (0-5)
Sample No: 20-1014-009

Date Collected: 02/24/20
Time Collected: 14:00
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		
Analysis Date: 03/03/20		Preparation Method 3050B		
		Preparation Date: 03/03/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	19.3	1.0	mg/kg	
Zinc	50.5	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 03/04/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 03/03/20 11:30				
pH @ 25°C, 1:2	8.20		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/27/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/06/20				Preparation Date: 03/04/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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: 03/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Project ID: IDOT WO 33 East Avenue 81.0220509.67	Time Collected: 14:00
Sample ID: 2673V-8-03 (0-5)	Date Received: 02/25/20
Sample No: 20-1014-009	Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/27/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/05/20		Preparation Date: 03/03/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.006	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.005	0.005	mg/L	
Iron	4.4	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: 03/04/20				
Mercury	< 0.0005	0.0005	mg/L	



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Sample ID: 2673V-8-03 (0-5)
Sample No: 20-1014-009

Date Collected: 02/24/20
Time Collected: 14:00
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 93.8	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 96.3	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 104.7	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 82.7	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 77.8	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 76.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 92.7	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 98.9	35 - 105	
8270C	Phenol-d5 (surr)	%R: 84.4	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-8-03 (5-11)
Sample No: 20-1014-010

Date Collected: 02/24/20
Time Collected: 14:05
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/27/20				
Total Solids	88.25		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/03/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-8-03 (5-11)
Sample No: 20-1014-010

Date Collected: 02/24/20
Time Collected: 14:05
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/03/20				
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: 03/04/20				
Preparation Date: 03/03/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	154	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-8-03 (5-11)
Sample No: 20-1014-010

Date Collected: 02/24/20
Time Collected: 14:05
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/04/20		Preparation Date: 03/03/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	348	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



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Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-8-03 (5-11)
Sample No: 20-1014-010

Date Collected: 02/24/20
Time Collected: 14:05
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/04/20				Preparation Date: 03/03/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/03/20				Preparation Date: 03/03/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.7	1.0	mg/kg	
Barium	46.2	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	76,600	50	mg/kg	
Chromium	13.2	0.5	mg/kg	
Cobalt	6.7	0.5	mg/kg	
Copper	21.6	0.5	mg/kg	
Iron	19,700	5.0	mg/kg	
Lead	32.2	0.5	mg/kg	
Magnesium	46,500	50	mg/kg	
Manganese	270	0.5	mg/kg	
Nickel	18.1	0.5	mg/kg	
Potassium	1,620	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	1,120	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-8-03 (5-11)
Sample No: 20-1014-010

Date Collected: 02/24/20
Time Collected: 14:05
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 03/03/20		Method: 6010C	Preparation Method 3050B Preparation Date: 03/03/20	
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	18.5	1.0	mg/kg	
Zinc	47.5	1.0	mg/kg	
Total Mercury Analysis Date: 03/04/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 03/03/20 11:30		Method: 9045D 2004		
pH @ 25°C, 1:2	7.57		Units	
TCLP Extraction Analysis Date: 02/27/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 03/06/20		Method: 6010C	Preparation Method 3010A Preparation Date: 03/04/20	
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.1	0.1	mg/L	
Lead	0.006	0.005	mg/L	
Manganese	4.5	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 Analysis Date: 03/04/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/24/20

Project ID: IDOT WO 33 East Avenue 81.0220509.67

Time Collected: 14:05

Sample ID: 2673V-8-03 (5-11)

Date Received: 02/25/20

Sample No: 20-1014-010

Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/27/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/05/20		Preparation Date: 03/03/20		
Arsenic	0.070	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.005	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.150	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.202	0.005	mg/L	
Iron	170	0.1	mg/L	
Lead	0.085	0.005	mg/L	
Manganese	1.2	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: 03/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-8-03 (5-11)
Sample No: 20-1014-010

Date Collected: 02/24/20
Time Collected: 14:05
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 99.8	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 98	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 109.6	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 85.1	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 76.7	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 67.1	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 94.8	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 89.8	35 - 105	
8270C	Phenol-d5 (surr)	%R: 80.1	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-8-04 (0-5)
Sample No: 20-1014-011

Date Collected: 02/24/20
Time Collected: 14:10
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/27/20				
Total Solids	83.58		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/03/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-8-04 (0-5)
Sample No: 20-1014-011

Date Collected: 02/24/20
Time Collected: 14:10
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/03/20				
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: 03/04/20				
Preparation Date: 03/03/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	779	330	ug/kg	
Benzo(a)pyrene	717	90	ug/kg	
Benzo(b)fluoranthene	648	330	ug/kg	
Benzo(k)fluoranthene	697	330	ug/kg	
Benzo(ghi)perylene	452	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	857	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-8-04 (0-5)
Sample No: 20-1014-011

Date Collected: 02/24/20
Time Collected: 14:10
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/04/20		Preparation Date: 03/03/20		
Dibenzo(a,h)anthracene	119	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	1,840	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	499	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-8-04 (0-5)
Sample No: 20-1014-011

Date Collected: 02/24/20
Time Collected: 14:10
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/04/20				Preparation Date: 03/03/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	927	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	1,390	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/03/20				Preparation Date: 03/03/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.6	1.0	mg/kg	
Barium	41.5	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	57,400	50	mg/kg	
Chromium	18.0	0.5	mg/kg	
Cobalt	11.2	0.5	mg/kg	
Copper	27.3	0.5	mg/kg	
Iron	23,300	5.0	mg/kg	
Lead	12.3	0.5	mg/kg	
Magnesium	27,900	50	mg/kg	
Manganese	394	0.5	mg/kg	
Nickel	30.3	0.5	mg/kg	
Potassium	2,140	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	1,550	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-8-04 (0-5)
Sample No: 20-1014-011

Date Collected: 02/24/20
Time Collected: 14:10
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Preparation Method 3050B				
Analysis Date: 03/03/20 Preparation Date: 03/03/20				
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	23.3	1.0	mg/kg	
Zinc	56.6	1.0	mg/kg	
Total Mercury Method: 7471B				
Analysis Date: 03/04/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 03/03/20 11:30				
pH @ 25°C, 1:2	8.18		Units	
TCLP Extraction Method: 1311				
Analysis Date: 03/02/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/06/20 Preparation Date: 03/04/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	4.0	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: 03/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/24/20
Project ID:	IDOT WO 33 East Avenue 81.0220509.67	Time Collected:	14:10
Sample ID:	2673V-8-04 (0-5)	Date Received:	02/25/20
Sample No:	20-1014-011	Date Reported:	03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 03/02/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/05/20		Preparation Date: 03/03/20		
Arsenic	0.036	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.097	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.145	0.005	mg/L	
Iron	112	0.1	mg/L	
Lead	0.179	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: 03/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-8-04 (0-5)
Sample No: 20-1014-011

Date Collected: 02/24/20
Time Collected: 14:10
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 96.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 96.6	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 104.3	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 80.2	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 78.2	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 68.7	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 98.2	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 87.6	35 - 105	
8270C	Phenol-d5 (surr)	%R: 78.6	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-8-04 (5-11)
Sample No: 20-1014-012

Date Collected: 02/24/20
Time Collected: 14:15
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/27/20				
Total Solids	80.56		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/03/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-8-04 (5-11)
Sample No: 20-1014-012

Date Collected: 02/24/20
Time Collected: 14:15
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/03/20				
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: 03/04/20				
Preparation Date: 03/03/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-8-04 (5-11)
Sample No: 20-1014-012

Date Collected: 02/24/20
Time Collected: 14:15
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/04/20		Preparation Date: 03/03/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-8-04 (5-11)
Sample No: 20-1014-012

Date Collected: 02/24/20
Time Collected: 14:15
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/04/20				Preparation Date: 03/03/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/03/20				Preparation Date: 03/03/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	12.6	1.0	mg/kg	
Barium	23.0	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	41,700	50	mg/kg	
Chromium	11.4	0.5	mg/kg	
Cobalt	13.9	0.5	mg/kg	
Copper	40.8	0.5	mg/kg	
Iron	24,600	5.0	mg/kg	
Lead	17.4	0.5	mg/kg	
Magnesium	26,400	50	mg/kg	
Manganese	436	0.5	mg/kg	
Nickel	31.6	0.5	mg/kg	
Potassium	1,620	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	809	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/24/20

Project ID: IDOT WO 33 East Avenue 81.0220509.67

Time Collected: 14:15

Sample ID: 2673V-8-04 (5-11)

Date Received: 02/25/20

Sample No: 20-1014-012

Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction Method: 1312				
Analysis Date: 03/02/20				
SPLP Metals Extraction Complete				
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/05/20 Preparation Date: 03/03/20				
Arsenic	0.014	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.015	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.056	0.005	mg/L	
Iron	28.5	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: 03/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-8-04 (5-11)
Sample No: 20-1014-012

Date Collected: 02/24/20
Time Collected: 14:15
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 95.9	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 97.3	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 112.5	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 106.2	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 77.3	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 65.7	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 100.7	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 84.7	35 - 105	
8270C	Phenol-d5 (surr)	%R: 72	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-9-01 (0-5)
Sample No: 20-1014-013

Date Collected: 02/24/20
Time Collected: 14:16
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/27/20				
Total Solids	78.46		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/03/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-9-01 (0-5)
Sample No: 20-1014-013

Date Collected: 02/24/20
Time Collected: 14:16
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/03/20				
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: 03/04/20				
Preparation Date: 03/03/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	287	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-9-01 (0-5)
Sample No: 20-1014-013

Date Collected: 02/24/20
Time Collected: 14:16
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/04/20		Preparation Date: 03/03/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-9-01 (0-5)
Sample No: 20-1014-013

Date Collected: 02/24/20
Time Collected: 14:16
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/04/20				Preparation Date: 03/03/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/03/20				Preparation Date: 03/03/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.7	1.0	mg/kg	
Barium	80.4	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	75,900	50	mg/kg	
Chromium	15.6	0.5	mg/kg	
Cobalt	6.6	0.5	mg/kg	
Copper	18.7	0.5	mg/kg	
Iron	19,600	5.0	mg/kg	
Lead	41.1	0.5	mg/kg	
Magnesium	49,700	50	mg/kg	
Manganese	292	0.5	mg/kg	
Nickel	17.7	0.5	mg/kg	
Potassium	1,670	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	1,730	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/24/20

Project ID: IDOT WO 33 East Avenue 81.0220509.67

Time Collected: 14:16

Sample ID: 2673V-9-01 (0-5)

Date Received: 02/25/20

Sample No: 20-1014-013

Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 03/02/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/05/20		Preparation Date: 03/03/20		
Arsenic	0.013	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.099	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.067	0.005	mg/L	
Iron	102	0.1	mg/L	
Lead	0.083	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	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 03/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-9-01 (0-5)
Sample No: 20-1014-013

Date Collected: 02/24/20
Time Collected: 14:16
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 95.6	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 100.2	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 105.1	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 106.1	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 78.7	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 68.1	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 102.6	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 90.9	35 - 105	
8270C	Phenol-d5 (surr)	%R: 75.8	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-9-01 (5-10)
Sample No: 20-1014-014

Date Collected: 02/24/20
Time Collected: 14:18
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/27/20				
Total Solids	82.74		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/03/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-9-01 (5-10)
Sample No: 20-1014-014

Date Collected: 02/24/20
Time Collected: 14:18
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/03/20				
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: 03/04/20				
Preparation Date: 03/03/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



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Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/04/20		Preparation Date: 03/03/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



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Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/04/20				Preparation Date: 03/03/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/03/20				Preparation Date: 03/03/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.3	1.0	mg/kg	
Barium	47.4	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	56,300	50	mg/kg	
Chromium	22.5	0.5	mg/kg	
Cobalt	14.5	0.5	mg/kg	
Copper	26.9	0.5	mg/kg	
Iron	25,300	5.0	mg/kg	
Lead	12.0	0.5	mg/kg	
Magnesium	25,600	50	mg/kg	
Manganese	510	0.5	mg/kg	
Nickel	38.9	0.5	mg/kg	
Potassium	2,740	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	1,360	50	mg/kg	



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Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 03/02/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/05/20		Preparation Date: 03/03/20		
Arsenic	0.074	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.009	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.258	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.272	0.005	mg/L	
Iron	256	0.1	mg/L	
Lead	0.088	0.005	mg/L	
Manganese	1.6	0.1	mg/L	
Nickel	0.3	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	0.007	0.005	mg/L	
Zinc	0.5	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 03/04/20				
Mercury	< 0.0005	0.0005	mg/L	



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Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 98.9	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 99.1	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 112.1	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 108.1	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 70.1	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 66.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 97.8	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 86.1	35 - 105	
8270C	Phenol-d5 (surr)	%R: 70.9	50 - 100	



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Sample ID: 2673V-9-01 (10-13)
Sample No: 20-1014-015

Date Collected: 02/24/20
Time Collected: 14:20
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/27/20				
Total Solids	82.20		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/03/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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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Time Collected: 14:20
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/03/20				
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: 03/04/20				
Preparation Date: 03/03/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



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Sample ID: 2673V-9-01 (10-13)
Sample No: 20-1014-015

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Time Collected: 14:20
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/04/20		Preparation Date: 03/03/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	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: 03/04/20				Preparation Date: 03/03/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/03/20				Preparation Date: 03/03/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.8	1.0	mg/kg	
Barium	48.1	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	55,900	50	mg/kg	
Chromium	22.3	0.5	mg/kg	
Cobalt	9.9	0.5	mg/kg	
Copper	23.0	0.5	mg/kg	
Iron	25,400	5.0	mg/kg	
Lead	10.8	0.5	mg/kg	
Magnesium	25,100	50	mg/kg	
Manganese	277	0.5	mg/kg	
Nickel	31.1	0.5	mg/kg	
Potassium	2,850	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	996	50	mg/kg	



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Time Collected: 14:20

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Date Received: 02/25/20

Sample No: 20-1014-015

Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 03/02/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/05/20		Preparation Date: 03/03/20		
Arsenic	0.035	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.140	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.144	0.005	mg/L	
Iron	144	0.1	mg/L	
Lead	0.056	0.005	mg/L	
Manganese	0.9	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: 03/04/20				
Mercury	< 0.0005	0.0005	mg/L	



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Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 96.7	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 100.6	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 106.9	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 101.8	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 73.3	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 68.3	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 95.2	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 87.2	35 - 105	
8270C	Phenol-d5 (surr)	%R: 73.7	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/24/20

Project ID: IDOT WO 33 East Avenue 81.0220509.67

Time Collected: 12:40

Sample ID: 2673V-18-01 (0-3)

Date Received: 02/25/20

Sample No: 20-1014-020

Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/27/20				
Total Solids	79.70		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/03/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-18-01 (0-3)
Sample No: 20-1014-020

Date Collected: 02/24/20
Time Collected: 12:40
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/03/20				
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: 03/04/20				
Preparation Date: 03/03/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-18-01 (0-3)
Sample No: 20-1014-020

Date Collected: 02/24/20
Time Collected: 12:40
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/04/20		Preparation Date: 03/03/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-18-01 (0-3)
Sample No: 20-1014-020

Date Collected: 02/24/20
Time Collected: 12:40
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/04/20				Preparation Date: 03/03/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/03/20				Preparation Date: 03/03/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	13.0	1.0	mg/kg	
Barium	119	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	2,760	50	mg/kg	
Chromium	22.1	0.5	mg/kg	
Cobalt	13.0	0.5	mg/kg	
Copper	30.9	0.5	mg/kg	
Iron	30,400	5.0	mg/kg	
Lead	17.8	0.5	mg/kg	
Magnesium	4,700	50	mg/kg	
Manganese	531	0.5	mg/kg	
Nickel	37.4	0.5	mg/kg	
Potassium	1,700	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	944	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-18-01 (0-3)
Sample No: 20-1014-020

Date Collected: 02/24/20
Time Collected: 12:40
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Preparation Method 3050B				
Analysis Date: 03/03/20 Preparation Date: 03/03/20				
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	34.1	1.0	mg/kg	
Zinc	51.7	1.0	mg/kg	
Total Mercury Method: 7471B				
Analysis Date: 03/04/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 03/03/20 11:30				
pH @ 25°C, 1:2	8.48		Units	
TCLP Extraction Method: 1311				
Analysis Date: 03/02/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/06/20 Preparation Date: 03/04/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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: 03/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/24/20

Project ID: IDOT WO 33 East Avenue 81.0220509.67

Time Collected: 12:40

Sample ID: 2673V-18-01 (0-3)

Date Received: 02/25/20

Sample No: 20-1014-020

Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 03/02/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/06/20		Preparation Date: 03/04/20		
Arsenic	0.014	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.130	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.107	0.005	mg/L	
Iron	113	0.1	mg/L	
Lead	0.031	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: 03/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-18-01 (0-3)
Sample No: 20-1014-020

Date Collected: 02/24/20
Time Collected: 12:40
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 98.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 97.7	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 107.3	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 94.2	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 73.2	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 58.2	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 103.7	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 86.8	35 - 105	
8270C	Phenol-d5 (surr)	%R: 68.9	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-DUP-9 (0-3)
Sample No: 20-1014-052

Date Collected: 02/24/20
Time Collected: 12:01
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/27/20				
Total Solids	79.03		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/06/20				
Acetone	204	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-DUP-9 (0-3)
Sample No: 20-1014-052

Date Collected: 02/24/20
Time Collected: 12:01
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/06/20				
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: 03/06/20				
Preparation Date: 03/05/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-DUP-9 (0-3)
Sample No: 20-1014-052

Date Collected: 02/24/20
Time Collected: 12:01
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/06/20		Preparation Date: 03/05/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-DUP-9 (0-3)
Sample No: 20-1014-052

Date Collected: 02/24/20
Time Collected: 12:01
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/06/20				Preparation Date: 03/05/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/06/20				Preparation Date: 03/04/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.4	1.0	mg/kg	
Barium	117	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	16,000	50	mg/kg	
Chromium	19.5	0.5	mg/kg	
Cobalt	8.1	0.5	mg/kg	
Copper	22.1	0.5	mg/kg	
Iron	22,800	5.0	mg/kg	
Lead	17.6	0.5	mg/kg	
Magnesium	8,740	50	mg/kg	
Manganese	366	0.5	mg/kg	
Nickel	21.1	0.5	mg/kg	
Potassium	1,820	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.7	0.2	mg/kg	
Sodium	485	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-DUP-9 (0-3)
Sample No: 20-1014-052

Date Collected: 02/24/20
Time Collected: 12:01
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 03/06/20	Method: 6010C	Preparation Method 3050B Preparation Date: 03/04/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	29.7	1.0	mg/kg	
Zinc	53.9	1.0	mg/kg	
Total Mercury Analysis Date: 03/06/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 03/04/20 8:00	Method: 9045D 2004			
pH @ 25°C, 1:2	8.39		Units	
TCLP Extraction Analysis Date: 03/02/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 03/09/20	Method: 6010C	Preparation Method 3010A Preparation Date: 03/06/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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 Analysis Date: 03/06/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/24/20

Project ID: IDOT WO 33 East Avenue 81.0220509.67

Time Collected: 12:01

Sample ID: 2673V-DUP-9 (0-3)

Date Received: 02/25/20

Sample No: 20-1014-052

Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 03/02/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/06/20		Preparation Date: 03/04/20		
Arsenic	< 0.010	0.010	mg/L	
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	22.3	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: 03/06/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-DUP-9 (0-3)
Sample No: 20-1014-052

Date Collected: 02/24/20
Time Collected: 12:01
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 102.4	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105.9	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 108.9	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 79.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 74	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 69.9	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 94.6	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 88.9	35 - 105	
8270C	Phenol-d5 (surr)	%R: 76.2	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-20 (0-5)
Sample No: 20-1014-025

Date Collected: 02/24/20
Time Collected: 9:40
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/27/20				
Total Solids	81.36		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/04/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-20 (0-5)
Sample No: 20-1014-025

Date Collected: 02/24/20
Time Collected: 9:40
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/04/20				
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: 03/05/20				
Preparation Date: 03/04/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-20 (0-5)
Sample No: 20-1014-025

Date Collected: 02/24/20
Time Collected: 9:40
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/05/20		Preparation Date: 03/04/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-20 (0-5)
Sample No: 20-1014-025

Date Collected: 02/24/20
Time Collected: 9:40
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/05/20				Preparation Date: 03/04/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/06/20				Preparation Date: 03/04/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.4	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	33,100	50	mg/kg	
Chromium	14.6	0.5	mg/kg	
Cobalt	8.8	0.5	mg/kg	
Copper	31.6	0.5	mg/kg	
Iron	20,200	5.0	mg/kg	
Lead	19.9	0.5	mg/kg	
Magnesium	20,200	50	mg/kg	
Manganese	293	0.5	mg/kg	
Nickel	24.7	0.5	mg/kg	
Potassium	1,250	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	2,130	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-20 (0-5)
Sample No: 20-1014-025

Date Collected: 02/24/20
Time Collected: 9:40
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Preparation Method 3050B				
Analysis Date: 03/06/20 Preparation Date: 03/04/20				
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	21.1	1.0	mg/kg	
Zinc	47.7	1.0	mg/kg	
Total Mercury Method: 7471B				
Analysis Date: 03/06/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 03/03/20 11:30				
pH @ 25°C, 1:2	8.85		Units	
TCLP Extraction Method: 1311				
Analysis Date: 03/02/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/09/20 Preparation Date: 03/05/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	5.3	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: 03/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/24/20

Project ID: IDOT WO 33 East Avenue 81.0220509.67

Time Collected: 9:40

Sample ID: 2673V-59-20 (0-5)

Date Received: 02/25/20

Sample No: 20-1014-025

Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 03/02/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/06/20		Preparation Date: 03/04/20		
Arsenic	0.042	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.146	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.196	0.005	mg/L	
Iron	143	0.1	mg/L	
Lead	0.164	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: 03/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-20 (0-5)
Sample No: 20-1014-025

Date Collected: 02/24/20
Time Collected: 9:40
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 99.3	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 94.6	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 102.7	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 81.9	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 73	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 69.5	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 92	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 82.1	35 - 105	
8270C	Phenol-d5 (surr)	%R: 75.7	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-DUP-3 (0-5)
Sample No: 20-1014-046

Date Collected: 02/24/20
Time Collected: 9:01
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/27/20				
Total Solids	79.82		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/06/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-DUP-3 (0-5)
Sample No: 20-1014-046

Date Collected: 02/24/20
Time Collected: 9:01
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/06/20				
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: 03/06/20				
Preparation Date: 03/05/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-DUP-3 (0-5)
Sample No: 20-1014-046

Date Collected: 02/24/20
Time Collected: 9:01
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/06/20		Preparation Date: 03/05/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-DUP-3 (0-5)
Sample No: 20-1014-046

Date Collected: 02/24/20
Time Collected: 9:01
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/06/20				Preparation Date: 03/05/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/06/20				Preparation Date: 03/04/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.7	1.0	mg/kg	
Barium	21.0	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	27,100	50	mg/kg	
Chromium	10.0	0.5	mg/kg	
Cobalt	6.9	0.5	mg/kg	
Copper	31.9	0.5	mg/kg	
Iron	18,800	5.0	mg/kg	
Lead	13.6	0.5	mg/kg	
Magnesium	17,300	50	mg/kg	
Manganese	280	0.5	mg/kg	
Nickel	23.3	0.5	mg/kg	
Potassium	1,360	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	1,450	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-DUP-3 (0-5)
Sample No: 20-1014-046

Date Collected: 02/24/20
Time Collected: 9:01
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 03/06/20		Method: 6010C		Preparation Method 3050B Preparation Date: 03/04/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	13.2	1.0	mg/kg	
Zinc	43.6	1.0	mg/kg	
Total Mercury Analysis Date: 03/06/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 03/04/20 8:00		Method: 9045D 2004		
pH @ 25°C, 1:2	8.87		Units	
TCLP Extraction Analysis Date: 03/02/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 03/06/20		Method: 6010C		Preparation Method 3010A Preparation Date: 03/06/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	4.3	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 Analysis Date: 03/06/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-DUP-3 (0-5)
Sample No: 20-1014-046

Date Collected: 02/24/20
Time Collected: 9:01
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction Method: 1312				
Analysis Date: 03/02/20				
SPLP Metals Extraction Complete				
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/06/20 Preparation Date: 03/04/20				
Arsenic	0.037	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.005	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.216	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.232	0.005	mg/L	
Iron	206	0.1	mg/L	
Lead	0.079	0.005	mg/L	
Manganese	1.8	0.1	mg/L	
Nickel	0.2	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	0.007	0.005	mg/L	
Zinc	0.5	0.1	mg/L	
SPLP Mercury Method 1312 Method: 7470A				
Analysis Date: 03/06/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-DUP-3 (0-5)
Sample No: 20-1014-046

Date Collected: 02/24/20
Time Collected: 9:01
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 101.6	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 100.2	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 105.5	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 80.8	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 66.2	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 67.9	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 92.3	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 81	35 - 105	
8270C	Phenol-d5 (surr)	%R: 72.4	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-20 (5-10)
Sample No: 20-1014-026

Date Collected: 02/24/20
Time Collected: 9:45
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/27/20				
Total Solids	78.65		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/04/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-20 (5-10)
Sample No: 20-1014-026

Date Collected: 02/24/20
Time Collected: 9:45
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/04/20				
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: 03/05/20				
Preparation Date: 03/04/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-20 (5-10)
Sample No: 20-1014-026

Date Collected: 02/24/20
Time Collected: 9:45
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/05/20		Preparation Date: 03/04/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-20 (5-10)
Sample No: 20-1014-026

Date Collected: 02/24/20
Time Collected: 9:45
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/05/20				Preparation Date: 03/04/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/06/20				Preparation Date: 03/04/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	9.3	1.0	mg/kg	
Barium	32.0	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	43,900	50	mg/kg	
Chromium	17.8	0.5	mg/kg	
Cobalt	8.1	0.5	mg/kg	
Copper	31.7	0.5	mg/kg	
Iron	23,500	5.0	mg/kg	
Lead	15.9	0.5	mg/kg	
Magnesium	18,900	50	mg/kg	
Manganese	275	0.5	mg/kg	
Nickel	28.7	0.5	mg/kg	
Potassium	2,040	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.7	0.2	mg/kg	
Sodium	2,170	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-20 (5-10)
Sample No: 20-1014-026

Date Collected: 02/24/20
Time Collected: 9:45
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 03/06/20	Method: 6010C	Preparation Method 3050B Preparation Date: 03/04/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	21.8	1.0	mg/kg	
Zinc	46.9	1.0	mg/kg	
Total Mercury Analysis Date: 03/06/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 03/03/20 11:30	Method: 9045D 2004			
pH @ 25°C, 1:2	8.57		Units	
TCLP Extraction Analysis Date: 03/02/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 03/09/20	Method: 6010C	Preparation Method 3010A Preparation Date: 03/05/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	5.0	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 Analysis Date: 03/04/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/24/20

Project ID: IDOT WO 33 East Avenue 81.0220509.67

Time Collected: 9:45

Sample ID: 2673V-59-20 (5-10)

Date Received: 02/25/20

Sample No: 20-1014-026

Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 03/02/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/06/20		Preparation Date: 03/04/20		
Arsenic	0.035	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.138	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.139	0.005	mg/L	
Iron	137	0.1	mg/L	
Lead	0.089	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	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 03/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-20 (5-10)
Sample No: 20-1014-026

Date Collected: 02/24/20
Time Collected: 9:45
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 101.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 96.7	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 107.5	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 73.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 62	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 71.2	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 87.5	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 81.1	35 - 105	
8270C	Phenol-d5 (surr)	%R: 74.7	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-22 (0-5)
Sample No: 20-1014-029

Date Collected: 02/24/20
Time Collected: 10:05
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/27/20				
Total Solids	79.10		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/04/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-22 (0-5)
Sample No: 20-1014-029

Date Collected: 02/24/20
Time Collected: 10:05
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/04/20				
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: 03/05/20				
Preparation Date: 03/04/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/24/20

Project ID: IDOT WO 33 East Avenue 81.0220509.67

Time Collected: 10:05

Sample ID: 2673V-59-22 (0-5)

Date Received: 02/25/20

Sample No: 20-1014-029

Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/05/20		Preparation Date: 03/04/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-22 (0-5)
Sample No: 20-1014-029

Date Collected: 02/24/20
Time Collected: 10:05
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/05/20				Preparation Date: 03/04/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/06/20				Preparation Date: 03/04/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	11.0	1.0	mg/kg	
Barium	81.8	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	2,200	50	mg/kg	
Chromium	19.7	0.5	mg/kg	
Cobalt	7.0	0.5	mg/kg	
Copper	27.8	0.5	mg/kg	
Iron	27,700	5.0	mg/kg	
Lead	16.5	0.5	mg/kg	
Magnesium	3,570	50	mg/kg	
Manganese	264	0.5	mg/kg	
Nickel	24.7	0.5	mg/kg	
Potassium	873	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.8	0.2	mg/kg	
Sodium	3,580	50	mg/kg	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/24/20
Project ID:	IDOT WO 33 East Avenue 81.0220509.67	Time Collected:	10:05
Sample ID:	2673V-59-22 (0-5)	Date Received:	02/25/20
Sample No:	20-1014-029	Date Reported:	03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 03/02/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/06/20		Preparation Date: 03/04/20		
Arsenic	0.033	0.010	mg/L	
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	0.133	0.005	mg/L	
Iron	118	0.1	mg/L	
Lead	0.040	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	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 03/05/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-22 (0-5)
Sample No: 20-1014-029

Date Collected: 02/24/20
Time Collected: 10:05
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 99.2	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 96	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 103.7	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 108.3	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 75.9	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 70.5	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 92.5	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 89.5	35 - 105	
8270C	Phenol-d5 (surr)	%R: 76.9	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/24/20

Project ID: IDOT WO 33 East Avenue 81.0220509.67

Time Collected: 9:06

Sample ID: 2673V-DUP-4 (0-5)

Date Received: 02/25/20

Sample No: 20-1014-047

Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/27/20				
Total Solids	82.20		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/06/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-DUP-4 (0-5)
Sample No: 20-1014-047

Date Collected: 02/24/20
Time Collected: 9:06
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/06/20				
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: 03/06/20				
Preparation Date: 03/05/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/24/20

Project ID: IDOT WO 33 East Avenue 81.0220509.67

Time Collected: 9:06

Sample ID: 2673V-DUP-4 (0-5)

Date Received: 02/25/20

Sample No: 20-1014-047

Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/06/20		Preparation Date: 03/05/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-DUP-4 (0-5)
Sample No: 20-1014-047

Date Collected: 02/24/20
Time Collected: 9:06
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/06/20				Preparation Date: 03/05/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/06/20				Preparation Date: 03/04/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	12.7	1.0	mg/kg	
Barium	47.2	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	4,840	50	mg/kg	
Chromium	16.9	0.5	mg/kg	
Cobalt	16.3	0.5	mg/kg	
Copper	46.0	0.5	mg/kg	
Iron	29,200	5.0	mg/kg	
Lead	24.0	0.5	mg/kg	
Magnesium	5,280	50	mg/kg	
Manganese	467	0.5	mg/kg	
Nickel	50.5	0.5	mg/kg	
Potassium	1,590	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.8	0.2	mg/kg	
Sodium	2,590	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-DUP-4 (0-5)
Sample No: 20-1014-047

Date Collected: 02/24/20
Time Collected: 9:06
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 03/06/20	Method: 6010C		Preparation Method 3050B Preparation Date: 03/04/20	
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	21.6	1.0	mg/kg	
Zinc	77.8	1.0	mg/kg	
Total Mercury Analysis Date: 03/06/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 03/04/20 8:00	Method: 9045D 2004			
pH @ 25°C, 1:2	8.75		Units	
TCLP Extraction Analysis Date: 03/02/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 03/06/20	Method: 6010C		Preparation Method 3010A Preparation Date: 03/06/20	
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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 Analysis Date: 03/06/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-DUP-4 (0-5)
Sample No: 20-1014-047

Date Collected: 02/24/20
Time Collected: 9:06
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction Method: 1312				
Analysis Date: 03/02/20				
SPLP Metals Extraction Complete				
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/06/20 Preparation Date: 03/04/20				
Arsenic	0.063	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.005	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.114	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.222	0.005	mg/L	
Iron	154	0.1	mg/L	
Lead	0.081	0.005	mg/L	
Manganese	0.6	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: 03/06/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-DUP-4 (0-5)
Sample No: 20-1014-047

Date Collected: 02/24/20
Time Collected: 9:06
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 99.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 101.7	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 101.9	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 81.1	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 70.1	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 70.1	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 91.9	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 89	35 - 105	
8270C	Phenol-d5 (surr)	%R: 76.6	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/24/20

Project ID: IDOT WO 33 East Avenue 81.0220509.67

Time Collected: 10:10

Sample ID: 2673V-59-22 (5-10)

Date Received: 02/25/20

Sample No: 20-1014-030

Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/27/20				
Total Solids	76.74		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/05/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-22 (5-10)
Sample No: 20-1014-030

Date Collected: 02/24/20
Time Collected: 10:10
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/05/20				
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: 03/05/20				
Preparation Date: 03/04/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-22 (5-10)
Sample No: 20-1014-030

Date Collected: 02/24/20
Time Collected: 10:10
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/05/20		Preparation Date: 03/04/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-22 (5-10)
Sample No: 20-1014-030

Date Collected: 02/24/20
Time Collected: 10:10
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/05/20				Preparation Date: 03/04/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/06/20				Preparation Date: 03/04/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.6	1.0	mg/kg	
Barium	74.6	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	26,800	50	mg/kg	
Chromium	20.0	0.5	mg/kg	
Cobalt	9.0	0.5	mg/kg	
Copper	21.2	0.5	mg/kg	
Iron	22,200	5.0	mg/kg	
Lead	31.0	0.5	mg/kg	
Magnesium	17,200	50	mg/kg	
Manganese	405	0.5	mg/kg	
Nickel	26.9	0.5	mg/kg	
Potassium	1,710	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.7	0.2	mg/kg	
Sodium	3,010	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-22 (5-10)
Sample No: 20-1014-030

Date Collected: 02/24/20
Time Collected: 10:10
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 03/06/20	Method: 6010C	Preparation Method 3050B Preparation Date: 03/04/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	26.2	1.0	mg/kg	
Zinc	51.3	1.0	mg/kg	
Total Mercury Analysis Date: 03/06/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 03/04/20 8:00	Method: 9045D 2004			
pH @ 25°C, 1:2	8.12		Units	
TCLP Extraction Analysis Date: 03/02/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 03/09/20	Method: 6010C	Preparation Method 3010A Preparation Date: 03/05/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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 Analysis Date: 03/06/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/24/20

Project ID: IDOT WO 33 East Avenue 81.0220509.67

Time Collected: 10:10

Sample ID: 2673V-59-22 (5-10)

Date Received: 02/25/20

Sample No: 20-1014-030

Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 03/02/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/06/20		Preparation Date: 03/04/20		
Arsenic	0.023	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.005	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.162	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.140	0.005	mg/L	
Iron	149	0.1	mg/L	
Lead	0.121	0.005	mg/L	
Manganese	0.9	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: 03/05/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-22 (5-10)
Sample No: 20-1014-030

Date Collected: 02/24/20
Time Collected: 10:10
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 97.8	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 96.8	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 105.1	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 101.7	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 72	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 67	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 95.7	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 86.3	35 - 105	
8270C	Phenol-d5 (surr)	%R: 74	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-23 (0-5)
Sample No: 20-1014-031

Date Collected: 02/24/20
Time Collected: 10:15
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/27/20				
Total Solids	82.20		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/05/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-23 (0-5)
Sample No: 20-1014-031

Date Collected: 02/24/20
Time Collected: 10:15
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/05/20				
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: 03/05/20				
Preparation Date: 03/04/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	296	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	351	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-23 (0-5)
Sample No: 20-1014-031

Date Collected: 02/24/20
Time Collected: 10:15
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/05/20		Preparation Date: 03/04/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	463	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-23 (0-5)
Sample No: 20-1014-031

Date Collected: 02/24/20
Time Collected: 10:15
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/05/20				Preparation Date: 03/04/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	388	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/06/20				Preparation Date: 03/04/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.6	1.0	mg/kg	
Barium	74.9	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	31,100	50	mg/kg	
Chromium	14.6	0.5	mg/kg	
Cobalt	9.1	0.5	mg/kg	
Copper	34.7	0.5	mg/kg	
Iron	20,900	5.0	mg/kg	
Lead	17.6	0.5	mg/kg	
Magnesium	17,400	50	mg/kg	
Manganese	337	0.5	mg/kg	
Nickel	27.7	0.5	mg/kg	
Potassium	954	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	2,400	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-23 (0-5)
Sample No: 20-1014-031

Date Collected: 02/24/20
Time Collected: 10:15
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 03/06/20				Preparation Date: 03/04/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	19.8	1.0	mg/kg	
Zinc	55.8	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 03/06/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 03/04/20 8:00				
pH @ 25°C, 1:2	8.22		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 03/02/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/09/20				Preparation Date: 03/05/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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: 03/06/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/24/20

Project ID: IDOT WO 33 East Avenue 81.0220509.67

Time Collected: 10:15

Sample ID: 2673V-59-23 (0-5)

Date Received: 02/25/20

Sample No: 20-1014-031

Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 03/02/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/06/20		Preparation Date: 03/04/20		
Arsenic	0.028	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.054	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.120	0.005	mg/L	
Iron	74.4	0.1	mg/L	
Lead	0.060	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	0.2	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 03/05/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-23 (0-5)
Sample No: 20-1014-031

Date Collected: 02/24/20
Time Collected: 10:15
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low 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: 111.1	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 102.3	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 79.6	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 68.2	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 87.9	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 91.2	35 - 105	
8270C	Phenol-d5 (surr)	%R: 74.6	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-23 (5-10)
Sample No: 20-1014-032

Date Collected: 02/24/20
Time Collected: 10:20
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/27/20				
Total Solids	76.79		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/05/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-23 (5-10)
Sample No: 20-1014-032

Date Collected: 02/24/20
Time Collected: 10:20
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/05/20				
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: 03/06/20				
Preparation Date: 03/04/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-23 (5-10)
Sample No: 20-1014-032

Date Collected: 02/24/20
Time Collected: 10:20
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/06/20		Preparation Date: 03/04/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-23 (5-10)
Sample No: 20-1014-032

Date Collected: 02/24/20
Time Collected: 10:20
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/06/20				Preparation Date: 03/04/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/06/20				Preparation Date: 03/04/20
Antimony	1.0	1.0	mg/kg	
Arsenic	9.9	1.0	mg/kg	
Barium	89.9	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	2,260	50	mg/kg	
Chromium	24.7	0.5	mg/kg	
Cobalt	10.5	0.5	mg/kg	
Copper	25.2	0.5	mg/kg	
Iron	32,100	5.0	mg/kg	
Lead	13.3	0.5	mg/kg	
Magnesium	4,130	50	mg/kg	
Manganese	356	0.5	mg/kg	
Nickel	30.2	0.5	mg/kg	
Potassium	1,220	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.9	0.2	mg/kg	
Sodium	3,890	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-23 (5-10)
Sample No: 20-1014-032

Date Collected: 02/24/20
Time Collected: 10:20
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 03/06/20	Method: 6010C	Preparation Method 3050B Preparation Date: 03/04/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	38.8	1.0	mg/kg	
Zinc	50.3	1.0	mg/kg	
Total Mercury Analysis Date: 03/06/20	Method: 7471B			
Mercury	0.06	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 03/04/20 8:00	Method: 9045D 2004			
pH @ 25°C, 1:2	8.30		Units	
TCLP Extraction Analysis Date: 03/02/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 03/09/20	Method: 6010C	Preparation Method 3010A Preparation Date: 03/05/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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 Analysis Date: 03/06/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/24/20
Project ID:	IDOT WO 33 East Avenue 81.0220509.67	Time Collected:	10:20
Sample ID:	2673V-59-23 (5-10)	Date Received:	02/25/20
Sample No:	20-1014-032	Date Reported:	03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 03/02/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/06/20		Preparation Date: 03/04/20		
Arsenic	0.032	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.006	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.195	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.151	0.005	mg/L	
Iron	192	0.1	mg/L	
Lead	0.054	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	0.006	0.005	mg/L	
Zinc	0.4	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 03/05/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-23 (5-10)
Sample No: 20-1014-032

Date Collected: 02/24/20
Time Collected: 10:20
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 98.8	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 97.5	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 107.9	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 82.1	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 64.6	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 57.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 96.3	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 77.8	35 - 105	
8270C	Phenol-d5 (surr)	%R: 67.4	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-DUP-5 (5-10)
Sample No: 20-1014-048

Date Collected: 02/24/20
Time Collected: 10:11
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/27/20				
Total Solids	81.85		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/06/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-DUP-5 (5-10)
Sample No: 20-1014-048

Date Collected: 02/24/20
Time Collected: 10:11
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/06/20				
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: 03/06/20				
Preparation Date: 03/05/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-DUP-5 (5-10)
Sample No: 20-1014-048

Date Collected: 02/24/20
Time Collected: 10:11
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/06/20		Preparation Date: 03/05/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-DUP-5 (5-10)
Sample No: 20-1014-048

Date Collected: 02/24/20
Time Collected: 10:11
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/06/20				Preparation Date: 03/05/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/06/20				Preparation Date: 03/04/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.9	1.0	mg/kg	
Barium	68.0	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	43,600	50	mg/kg	
Chromium	19.8	0.5	mg/kg	
Cobalt	12.5	0.5	mg/kg	
Copper	23.3	0.5	mg/kg	
Iron	23,600	5.0	mg/kg	
Lead	12.6	0.5	mg/kg	
Magnesium	20,300	50	mg/kg	
Manganese	439	0.5	mg/kg	
Nickel	34.4	0.5	mg/kg	
Potassium	2,090	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.7	0.2	mg/kg	
Sodium	2,370	50	mg/kg	



Analytical Report

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Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-DUP-5 (5-10)
Sample No: 20-1014-048

Date Collected: 02/24/20
Time Collected: 10:11
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C	Preparation Method 3050B	
Analysis Date: 03/06/20		Preparation Date: 03/04/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	25.8	1.0	mg/kg	
Zinc	42.5	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 03/06/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 03/04/20 8:00				
pH @ 25°C, 1:2	8.66		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 03/02/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C	Preparation Method 3010A	
Analysis Date: 03/06/20		Preparation Date: 03/06/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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: 03/06/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/24/20

Project ID: IDOT WO 33 East Avenue 81.0220509.67

Time Collected: 10:11

Sample ID: 2673V-DUP-5 (5-10)

Date Received: 02/25/20

Sample No: 20-1014-048

Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 03/02/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/06/20		Preparation Date: 03/04/20		
Arsenic	0.022	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.110	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.082	0.005	mg/L	
Iron	105	0.1	mg/L	
Lead	0.028	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	0.2	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 03/06/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-DUP-5 (5-10)
Sample No: 20-1014-048

Date Collected: 02/24/20
Time Collected: 10:11
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 103.6	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 100.4	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 105.8	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 80.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 69.3	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 72.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 93.7	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 88.3	35 - 105	
8270C	Phenol-d5 (surr)	%R: 76.6	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-24 (0-5)
Sample No: 20-1014-033

Date Collected: 02/24/20
Time Collected: 10:25
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/27/20				
Total Solids	79.51		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/05/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-24 (0-5)
Sample No: 20-1014-033

Date Collected: 02/24/20
Time Collected: 10:25
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/05/20				
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: 03/06/20				
Preparation Date: 03/04/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-24 (0-5)
Sample No: 20-1014-033

Date Collected: 02/24/20
Time Collected: 10:25
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/06/20		Preparation Date: 03/04/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

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Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-24 (0-5)
Sample No: 20-1014-033

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Time Collected: 10:25
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/06/20				Preparation Date: 03/04/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/06/20				Preparation Date: 03/04/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.2	1.0	mg/kg	
Barium	57.3	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	44,800	50	mg/kg	
Chromium	19.5	0.5	mg/kg	
Cobalt	13.7	0.5	mg/kg	
Copper	23.6	0.5	mg/kg	
Iron	23,900	5.0	mg/kg	
Lead	13.3	0.5	mg/kg	
Magnesium	21,700	50	mg/kg	
Manganese	342	0.5	mg/kg	
Nickel	27.7	0.5	mg/kg	
Potassium	1,550	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.7	0.2	mg/kg	
Sodium	2,520	50	mg/kg	



Analytical Report

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Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-24 (0-5)
Sample No: 20-1014-033

Date Collected: 02/24/20
Time Collected: 10:25
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 03/06/20		Method: 6010C		Preparation Method 3050B Preparation Date: 03/04/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	25.8	1.0	mg/kg	
Zinc	45.3	1.0	mg/kg	
Total Mercury Analysis Date: 03/06/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 03/04/20 8:00		Method: 9045D 2004		
pH @ 25°C, 1:2	8.52		Units	
TCLP Extraction Analysis Date: 03/02/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 03/09/20		Method: 6010C		Preparation Method 3010A Preparation Date: 03/05/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	2.5	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 Analysis Date: 03/06/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/24/20

Project ID: IDOT WO 33 East Avenue 81.0220509.67

Time Collected: 10:25

Sample ID: 2673V-59-24 (0-5)

Date Received: 02/25/20

Sample No: 20-1014-033

Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 03/02/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/06/20		Preparation Date: 03/04/20		
Arsenic	0.036	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.151	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.149	0.005	mg/L	
Iron	154	0.1	mg/L	
Lead	0.060	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	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 03/05/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-24 (0-5)
Sample No: 20-1014-033

Date Collected: 02/24/20
Time Collected: 10:25
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 100.4	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 103.4	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 111.3	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 95.1	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 63.9	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 65.6	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 92.4	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 79.3	35 - 105	
8270C	Phenol-d5 (surr)	%R: 71.4	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-DUP-6 (0-5)
Sample No: 20-1014-049

Date Collected: 02/24/20
Time Collected: 10:22
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/27/20				
Total Solids	84.65		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/06/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-DUP-6 (0-5)
Sample No: 20-1014-049

Date Collected: 02/24/20
Time Collected: 10:22
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/06/20				
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: 03/06/20				
Preparation Date: 03/05/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-DUP-6 (0-5)
Sample No: 20-1014-049

Date Collected: 02/24/20
Time Collected: 10:22
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/06/20		Preparation Date: 03/05/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-DUP-6 (0-5)
Sample No: 20-1014-049

Date Collected: 02/24/20
Time Collected: 10:22
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/06/20				Preparation Date: 03/05/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/06/20				Preparation Date: 03/04/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.8	1.0	mg/kg	
Barium	39.1	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	42,700	50	mg/kg	
Chromium	17.1	0.5	mg/kg	
Cobalt	10.6	0.5	mg/kg	
Copper	19.5	0.5	mg/kg	
Iron	20,600	5.0	mg/kg	
Lead	8.5	0.5	mg/kg	
Magnesium	19,700	50	mg/kg	
Manganese	409	0.5	mg/kg	
Nickel	28.8	0.5	mg/kg	
Potassium	2,240	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	2,260	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-DUP-6 (0-5)
Sample No: 20-1014-049

Date Collected: 02/24/20
Time Collected: 10:22
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 03/06/20	Method: 6010C	Preparation Method 3050B Preparation Date: 03/04/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	20.9	1.0	mg/kg	
Zinc	40.0	1.0	mg/kg	
Total Mercury Analysis Date: 03/06/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 03/04/20 8:00	Method: 9045D 2004			
pH @ 25°C, 1:2	8.69		Units	
TCLP Extraction Analysis Date: 03/02/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 03/06/20	Method: 6010C	Preparation Method 3010A Preparation Date: 03/06/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	6.5	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 Analysis Date: 03/06/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/24/20

Project ID: IDOT WO 33 East Avenue 81.0220509.67

Time Collected: 10:22

Sample ID: 2673V-DUP-6 (0-5)

Date Received: 02/25/20

Sample No: 20-1014-049

Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 03/02/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/06/20		Preparation Date: 03/04/20		
Arsenic	0.057	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.122	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.132	0.005	mg/L	
Iron	144	0.1	mg/L	
Lead	0.063	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	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 03/06/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-DUP-6 (0-5)
Sample No: 20-1014-049

Date Collected: 02/24/20
Time Collected: 10:22
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 98.4	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 103.4	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 99.2	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 79.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 66.6	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 70.5	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 91.9	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 84.4	35 - 105	
8270C	Phenol-d5 (surr)	%R: 73.9	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/24/20

Project ID: IDOT WO 33 East Avenue 81.0220509.67

Time Collected: 10:30

Sample ID: 2673V-59-24 (5-10)

Date Received: 02/25/20

Sample No: 20-1014-034

Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/27/20				
Total Solids	80.95		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/05/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-24 (5-10)
Sample No: 20-1014-034

Date Collected: 02/24/20
Time Collected: 10:30
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/05/20				
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: 03/06/20				
Preparation Date: 03/05/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-24 (5-10)
Sample No: 20-1014-034

Date Collected: 02/24/20
Time Collected: 10:30
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/06/20		Preparation Date: 03/05/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-24 (5-10)
Sample No: 20-1014-034

Date Collected: 02/24/20
Time Collected: 10:30
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/06/20				Preparation Date: 03/05/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/06/20				Preparation Date: 03/04/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.1	1.0	mg/kg	
Barium	59.1	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	43,600	50	mg/kg	
Chromium	16.8	0.5	mg/kg	
Cobalt	20.2	0.5	mg/kg	
Copper	21.7	0.5	mg/kg	
Iron	20,100	5.0	mg/kg	
Lead	11.4	0.5	mg/kg	
Magnesium	19,300	50	mg/kg	
Manganese	565	0.5	mg/kg	
Nickel	34.7	0.5	mg/kg	
Potassium	1,980	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	1,630	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-24 (5-10)
Sample No: 20-1014-034

Date Collected: 02/24/20
Time Collected: 10:30
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 03/06/20	Method: 6010C	Preparation Method 3050B Preparation Date: 03/04/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	21.6	1.0	mg/kg	
Zinc	40.0	1.0	mg/kg	
Total Mercury Analysis Date: 03/06/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 03/04/20 8:00	Method: 9045D 2004			
pH @ 25°C, 1:2	8.50		Units	
TCLP Extraction Analysis Date: 03/02/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 03/09/20	Method: 6010C	Preparation Method 3010A Preparation Date: 03/05/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	2.3	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 Analysis Date: 03/06/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/24/20

Project ID: IDOT WO 33 East Avenue 81.0220509.67

Time Collected: 10:30

Sample ID: 2673V-59-24 (5-10)

Date Received: 02/25/20

Sample No: 20-1014-034

Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 03/02/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/06/20		Preparation Date: 03/04/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.030	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.025	0.005	mg/L	
Iron	28.4	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: 03/05/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-24 (5-10)
Sample No: 20-1014-034

Date Collected: 02/24/20
Time Collected: 10:30
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 96.3	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 98.7	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 104.6	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 105.1	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 66	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 68.2	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 99.4	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 85.4	35 - 105	
8270C	Phenol-d5 (surr)	%R: 70.4	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-24 (10-13)
Sample No: 20-1014-035

Date Collected: 02/24/20
Time Collected: 10:35
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/27/20				
Total Solids	87.67		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/06/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-24 (10-13)
Sample No: 20-1014-035

Date Collected: 02/24/20
Time Collected: 10:35
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/06/20				
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: 03/06/20				
Preparation Date: 03/05/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-24 (10-13)
Sample No: 20-1014-035

Date Collected: 02/24/20
Time Collected: 10:35
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/06/20		Preparation Date: 03/05/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-24 (10-13)
Sample No: 20-1014-035

Date Collected: 02/24/20
Time Collected: 10:35
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/06/20				Preparation Date: 03/05/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/06/20				Preparation Date: 03/04/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.4	1.0	mg/kg	
Barium	31.8	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	140,000	50	mg/kg	
Chromium	7.5	0.5	mg/kg	
Cobalt	5.3	0.5	mg/kg	
Copper	14.1	0.5	mg/kg	
Iron	11,400	5.0	mg/kg	
Lead	23.8	0.5	mg/kg	
Magnesium	78,100	50	mg/kg	
Manganese	317	0.5	mg/kg	
Nickel	11.6	0.5	mg/kg	
Potassium	884	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	879	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-24 (10-13)
Sample No: 20-1014-035

Date Collected: 02/24/20
Time Collected: 10:35
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 03/06/20		Method: 6010C		Preparation Method 3050B Preparation Date: 03/04/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	11.5	1.0	mg/kg	
Zinc	24.5	1.0	mg/kg	
Total Mercury Analysis Date: 03/06/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 03/04/20 8:00		Method: 9045D 2004		
pH @ 25°C, 1:2	8.01		Units	
TCLP Extraction Analysis Date: 03/02/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 03/09/20		Method: 6010C		Preparation Method 3010A Preparation Date: 03/05/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.5	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 Analysis Date: 03/06/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/24/20
Project ID:	IDOT WO 33 East Avenue 81.0220509.67	Time Collected:	10:35
Sample ID:	2673V-59-24 (10-13)	Date Received:	02/25/20
Sample No:	20-1014-035	Date Reported:	03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 03/02/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/06/20		Preparation Date: 03/04/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.031	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.042	0.005	mg/L	
Iron	37.5	0.1	mg/L	
Lead	0.031	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: 03/05/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-24 (10-13)
Sample No: 20-1014-035

Date Collected: 02/24/20
Time Collected: 10:35
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 100.1	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105.1	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 103.7	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 82.3	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 68.2	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 68.4	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 92.8	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 83.6	35 - 105	
8270C	Phenol-d5 (surr)	%R: 70.9	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/24/20

Project ID: IDOT WO 33 East Avenue 81.0220509.67

Time Collected: 10:40

Sample ID: 2673V-59-25 (0-5)

Date Received: 02/25/20

Sample No: 20-1014-036

Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/27/20				
Total Solids	81.65		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/06/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-25 (0-5)
Sample No: 20-1014-036

Date Collected: 02/24/20
Time Collected: 10:40
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/06/20				
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: 03/06/20				
Preparation Date: 03/05/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-25 (0-5)
Sample No: 20-1014-036

Date Collected: 02/24/20
Time Collected: 10:40
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/06/20		Preparation Date: 03/05/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-25 (0-5)
Sample No: 20-1014-036

Date Collected: 02/24/20
Time Collected: 10:40
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/06/20				Preparation Date: 03/05/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/06/20				Preparation Date: 03/04/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.2	1.0	mg/kg	
Barium	94.9	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	57,600	50	mg/kg	
Chromium	21.3	0.5	mg/kg	
Cobalt	13.2	0.5	mg/kg	
Copper	30.3	0.5	mg/kg	
Iron	25,300	5.0	mg/kg	
Lead	33.2	0.5	mg/kg	
Magnesium	34,800	50	mg/kg	
Manganese	605	0.5	mg/kg	
Nickel	37.4	0.5	mg/kg	
Potassium	2,060	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.7	0.2	mg/kg	
Sodium	2,530	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-25 (0-5)
Sample No: 20-1014-036

Date Collected: 02/24/20
Time Collected: 10:40
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 03/06/20		Method: 6010C	Preparation Method 3050B Preparation Date: 03/04/20	
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	27.3	1.0	mg/kg	
Zinc	58.2	1.0	mg/kg	
Total Mercury Analysis Date: 03/06/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 03/04/20 8:00		Method: 9045D 2004		
pH @ 25°C, 1:2	8.97		Units	
TCLP Extraction Analysis Date: 03/02/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 03/09/20		Method: 6010C	Preparation Method 3010A Preparation Date: 03/05/20	
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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 Analysis Date: 03/06/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/24/20

Project ID: IDOT WO 33 East Avenue 81.0220509.67

Time Collected: 10:40

Sample ID: 2673V-59-25 (0-5)

Date Received: 02/25/20

Sample No: 20-1014-036

Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 03/02/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/06/20		Preparation Date: 03/04/20		
Arsenic	0.044	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.121	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.151	0.005	mg/L	
Iron	134	0.1	mg/L	
Lead	0.088	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	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 03/05/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-25 (0-5)
Sample No: 20-1014-036

Date Collected: 02/24/20
Time Collected: 10:40
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 102.1	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 106.6	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 107.7	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 105.1	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 75.6	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 63.5	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 98	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 85	35 - 105	
8270C	Phenol-d5 (surr)	%R: 71.8	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-25 (5-10)
Sample No: 20-1014-037

Date Collected: 02/24/20
Time Collected: 10:45
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/27/20				
Total Solids	88.98		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/06/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-25 (5-10)
Sample No: 20-1014-037

Date Collected: 02/24/20
Time Collected: 10:45
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/06/20				
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: 03/06/20				
Preparation Date: 03/05/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-25 (5-10)
Sample No: 20-1014-037

Date Collected: 02/24/20
Time Collected: 10:45
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/06/20		Preparation Date: 03/05/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-25 (5-10)
Sample No: 20-1014-037

Date Collected: 02/24/20
Time Collected: 10:45
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/06/20				Preparation Date: 03/05/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/06/20				Preparation Date: 03/04/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.1	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	97,600	50	mg/kg	
Chromium	8.4	0.5	mg/kg	
Cobalt	11.5	0.5	mg/kg	
Copper	18.3	0.5	mg/kg	
Iron	11,000	5.0	mg/kg	
Lead	29.6	0.5	mg/kg	
Magnesium	62,900	50	mg/kg	
Manganese	479	0.5	mg/kg	
Nickel	18.3	0.5	mg/kg	
Potassium	934	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	1,480	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-25 (5-10)
Sample No: 20-1014-037

Date Collected: 02/24/20
Time Collected: 10:45
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 03/06/20	Method: 6010C	Preparation Method 3050B Preparation Date: 03/04/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	13.6	1.0	mg/kg	
Zinc	32.2	1.0	mg/kg	
Total Mercury Analysis Date: 03/06/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 03/04/20 8:00	Method: 9045D 2004			
pH @ 25°C, 1:2	8.94		Units	
TCLP Extraction Analysis Date: 03/02/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 03/09/20	Method: 6010C	Preparation Method 3010A Preparation Date: 03/05/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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 Analysis Date: 03/06/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/24/20

Project ID: IDOT WO 33 East Avenue 81.0220509.67

Time Collected: 10:45

Sample ID: 2673V-59-25 (5-10)

Date Received: 02/25/20

Sample No: 20-1014-037

Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 03/02/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/06/20		Preparation Date: 03/04/20		
Arsenic	0.014	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.064	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.095	0.005	mg/L	
Iron	63.7	0.1	mg/L	
Lead	0.107	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: 03/05/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-25 (5-10)
Sample No: 20-1014-037

Date Collected: 02/24/20
Time Collected: 10:45
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 100.1	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 100.7	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 103.6	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 108	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 74.6	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 64.2	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 100.5	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 84	35 - 105	
8270C	Phenol-d5 (surr)	%R: 68.8	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-28 (0-5)
Sample No: 20-1014-042

Date Collected: 02/24/20
Time Collected: 11:00
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/27/20				
Total Solids	71.77		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/06/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	30.8	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-28 (0-5)
Sample No: 20-1014-042

Date Collected: 02/24/20
Time Collected: 11:00
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/06/20				
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: 03/06/20				
Preparation Date: 03/05/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-28 (0-5)
Sample No: 20-1014-042

Date Collected: 02/24/20
Time Collected: 11:00
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/06/20		Preparation Date: 03/05/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-28 (0-5)
Sample No: 20-1014-042

Date Collected: 02/24/20
Time Collected: 11:00
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/06/20				Preparation Date: 03/05/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/06/20				Preparation Date: 03/04/20
Antimony	1.0	1.0	mg/kg	
Arsenic	11.7	1.0	mg/kg	
Barium	190	0.5	mg/kg	
Beryllium	1.0	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	9,620	50	mg/kg	
Chromium	28.6	0.5	mg/kg	
Cobalt	12.5	0.5	mg/kg	
Copper	35.3	0.5	mg/kg	
Iron	30,400	5.0	mg/kg	
Lead	25.8	0.5	mg/kg	
Magnesium	8,120	50	mg/kg	
Manganese	186	0.5	mg/kg	
Nickel	35.2	0.5	mg/kg	
Potassium	1,930	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.9	0.2	mg/kg	
Sodium	6,760	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-28 (0-5)
Sample No: 20-1014-042

Date Collected: 02/24/20
Time Collected: 11:00
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 03/06/20	Method: 6010C	Preparation Method 3050B Preparation Date: 03/04/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	48.2	1.0	mg/kg	
Zinc	64.0	1.0	mg/kg	
Total Mercury Analysis Date: 03/06/20	Method: 7471B			
Mercury	0.08	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 03/04/20 8:00	Method: 9045D 2004			
pH @ 25°C, 1:2	8.44		Units	
TCLP Extraction Analysis Date: 03/02/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 03/06/20	Method: 6010C	Preparation Method 3010A Preparation Date: 03/06/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.016	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 Analysis Date: 03/06/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/24/20
Project ID:	IDOT WO 33 East Avenue 81.0220509.67	Time Collected:	11:00
Sample ID:	2673V-59-28 (0-5)	Date Received:	02/25/20
Sample No:	20-1014-042	Date Reported:	03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 03/02/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/06/20		Preparation Date: 03/04/20		
Arsenic	0.031	0.010	mg/L	
Barium	1.5	1.0	mg/L	
Beryllium	0.006	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.174	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.179	0.005	mg/L	
Iron	154	0.1	mg/L	
Lead	0.129	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: 03/06/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-28 (0-5)
Sample No: 20-1014-042

Date Collected: 02/24/20
Time Collected: 11:00
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 103	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 100.8	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 106.4	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 107.7	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 78.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 70.2	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 101.5	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 88.1	35 - 105	
8270C	Phenol-d5 (surr)	%R: 74.4	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-DUP-7 (0-5)
Sample No: 20-1014-050

Date Collected: 02/24/20
Time Collected: 10:59
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/27/20				
Total Solids	77.35		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/06/20				
Acetone	219	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-DUP-7 (0-5)
Sample No: 20-1014-050

Date Collected: 02/24/20
Time Collected: 10:59
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/06/20				
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: 03/06/20				
Preparation Date: 03/05/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	542	330	ug/kg	
Benzo(a)pyrene	529	90	ug/kg	
Benzo(b)fluoranthene	414	330	ug/kg	
Benzo(k)fluoranthene	634	330	ug/kg	
Benzo(ghi)perylene	364	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	643	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-DUP-7 (0-5)
Sample No: 20-1014-050

Date Collected: 02/24/20
Time Collected: 10:59
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/06/20		Preparation Date: 03/05/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	1,120	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	379	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-DUP-7 (0-5)
Sample No: 20-1014-050

Date Collected: 02/24/20
Time Collected: 10:59
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/06/20				Preparation Date: 03/05/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	544	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	915	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/06/20				Preparation Date: 03/04/20
Antimony	1.2	1.0	mg/kg	
Arsenic	8.8	1.0	mg/kg	
Barium	114	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	18,700	50	mg/kg	
Chromium	21.8	0.5	mg/kg	
Cobalt	9.9	0.5	mg/kg	
Copper	40.3	0.5	mg/kg	
Iron	23,700	5.0	mg/kg	
Lead	199	0.5	mg/kg	
Magnesium	11,900	50	mg/kg	
Manganese	480	0.5	mg/kg	
Nickel	20.7	0.5	mg/kg	
Potassium	1,420	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.7	0.2	mg/kg	
Sodium	4,440	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-DUP-7 (0-5)
Sample No: 20-1014-050

Date Collected: 02/24/20
Time Collected: 10:59
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Preparation Method 3050B				
Analysis Date: 03/06/20 Preparation Date: 03/04/20				
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	30.8	1.0	mg/kg	
Zinc	112	1.0	mg/kg	
Total Mercury Method: 7471B				
Analysis Date: 03/06/20				
Mercury	0.06	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 03/04/20 8:00				
pH @ 25°C, 1:2	7.50		Units	
TCLP Extraction Method: 1311				
Analysis Date: 03/02/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/06/20 Preparation Date: 03/06/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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: 03/06/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/24/20

Project ID: IDOT WO 33 East Avenue 81.0220509.67

Time Collected: 10:59

Sample ID: 2673V-DUP-7 (0-5)

Date Received: 02/25/20

Sample No: 20-1014-050

Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 03/02/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/06/20		Preparation Date: 03/04/20		
Arsenic	0.021	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.089	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.084	0.005	mg/L	
Iron	82.3	0.1	mg/L	
Lead	0.099	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	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 03/06/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-DUP-7 (0-5)
Sample No: 20-1014-050

Date Collected: 02/24/20
Time Collected: 10:59
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 103.2	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 102.2	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 109.2	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 68.1	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 72.3	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 62.2	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 92.6	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 88.9	35 - 105	
8270C	Phenol-d5 (surr)	%R: 72.5	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-30 (0-5)
Sample No: 20-1014-044

Date Collected: 02/24/20
Time Collected: 11:04
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/27/20				
Total Solids	83.24		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/06/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-30 (0-5)
Sample No: 20-1014-044

Date Collected: 02/24/20
Time Collected: 11:04
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/06/20				
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: 03/06/20				
Preparation Date: 03/05/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-30 (0-5)
Sample No: 20-1014-044

Date Collected: 02/24/20
Time Collected: 11:04
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/06/20		Preparation Date: 03/05/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-30 (0-5)
Sample No: 20-1014-044

Date Collected: 02/24/20
Time Collected: 11:04
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/06/20				Preparation Date: 03/05/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/06/20				Preparation Date: 03/04/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.3	1.0	mg/kg	
Barium	61.5	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	21,200	50	mg/kg	
Chromium	16.5	0.5	mg/kg	
Cobalt	7.9	0.5	mg/kg	
Copper	28.1	0.5	mg/kg	
Iron	21,400	5.0	mg/kg	
Lead	64.6	0.5	mg/kg	
Magnesium	13,100	50	mg/kg	
Manganese	364	0.5	mg/kg	
Nickel	23.4	0.5	mg/kg	
Potassium	1,560	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	729	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.	Date Collected: 02/24/20
Project ID: IDOT WO 33 East Avenue 81.0220509.67	Time Collected: 11:04
Sample ID: 2673V-59-30 (0-5)	Date Received: 02/25/20
Sample No: 20-1014-044	Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 03/06/20	Method: 6010C	Preparation Method 3050B Preparation Date: 03/04/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	22.1	1.0	mg/kg	
Zinc	69.9	1.0	mg/kg	
Total Mercury Analysis Date: 03/06/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 03/04/20 8:00	Method: 9045D 2004			
pH @ 25°C, 1:2	8.94		Units	
TCLP Extraction Analysis Date: 03/02/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 03/06/20	Method: 6010C	Preparation Method 3010A Preparation Date: 03/06/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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 Analysis Date: 03/06/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/24/20

Project ID: IDOT WO 33 East Avenue 81.0220509.67

Time Collected: 11:04

Sample ID: 2673V-59-30 (0-5)

Date Received: 02/25/20

Sample No: 20-1014-044

Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 03/02/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/06/20		Preparation Date: 03/04/20		
Arsenic	0.032	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.098	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.171	0.005	mg/L	
Iron	126	0.1	mg/L	
Lead	0.132	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	0.4	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 03/06/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-30 (0-5)
Sample No: 20-1014-044

Date Collected: 02/24/20
Time Collected: 11:04
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 101.1	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 102	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 105.8	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 104.9	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 83.5	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 69.2	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 99.8	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 95.3	35 - 105	
8270C	Phenol-d5 (surr)	%R: 75.2	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-30 (5-10)
Sample No: 20-1014-045

Date Collected: 02/24/20
Time Collected: 11:06
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/27/20				
Total Solids	85.63		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/06/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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: 02/24/20

Project ID: IDOT WO 33 East Avenue 81.0220509.67

Time Collected: 11:06

Sample ID: 2673V-59-30 (5-10)

Date Received: 02/25/20

Sample No: 20-1014-045

Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/06/20				
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: 03/06/20				
Preparation Date: 03/05/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	358	330	ug/kg	
Benzo(a)pyrene	391	90	ug/kg	
Benzo(b)fluoranthene	402	330	ug/kg	
Benzo(k)fluoranthene	392	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	447	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-30 (5-10)
Sample No: 20-1014-045

Date Collected: 02/24/20
Time Collected: 11:06
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/06/20		Preparation Date: 03/05/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	866	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-30 (5-10)
Sample No: 20-1014-045

Date Collected: 02/24/20
Time Collected: 11:06
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/06/20				Preparation Date: 03/05/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	680	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/06/20				Preparation Date: 03/04/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.4	1.0	mg/kg	
Barium	43.9	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	135,000	50	mg/kg	
Chromium	9.9	0.5	mg/kg	
Cobalt	4.1	0.5	mg/kg	
Copper	15.0	0.5	mg/kg	
Iron	9,130	5.0	mg/kg	
Lead	28.7	0.5	mg/kg	
Magnesium	54,600	50	mg/kg	
Manganese	339	0.5	mg/kg	
Nickel	8.9	0.5	mg/kg	
Potassium	808	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	424	50	mg/kg	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	02/24/20
Project ID:	IDOT WO 33 East Avenue 81.0220509.67	Time Collected:	11:06
Sample ID:	2673V-59-30 (5-10)	Date Received:	02/25/20
Sample No:	20-1014-045	Date Reported:	03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals				
Method: 6010C		Preparation Method 3050B		
Analysis Date: 03/06/20		Preparation Date: 03/04/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	11.9	1.0	mg/kg	
Zinc	48.9	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 03/06/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 03/04/20 8:00				
pH @ 25°C, 1:2	8.82		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 03/02/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311				
Method: 6010C		Preparation Method 3010A		
Analysis Date: 03/06/20		Preparation Date: 03/06/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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: 03/06/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-30 (5-10)
Sample No: 20-1014-045

Date Collected: 02/24/20
Time Collected: 11:06
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction Method: 1312				
Analysis Date: 03/02/20				
SPLP Metals Extraction Complete				
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/06/20 Preparation Date: 03/04/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.016	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.021	0.005	mg/L	
Iron	14.2	0.1	mg/L	
Lead	0.029	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: 03/06/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 33 East Avenue 81.0220509.67
Sample ID: 2673V-59-30 (5-10)
Sample No: 20-1014-045

Date Collected: 02/24/20
Time Collected: 11:06
Date Received: 02/25/20
Date Reported: 03/13/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 100.3	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 102.9	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 102	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 82.6	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 80.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 76.5	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 91.7	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 97.3	35 - 105	
8270C	Phenol-d5 (surr)	%R: 82	50 - 100	



Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 2170 East Ave (55th Street to Joliet Rd) Office Phone Number, if available: 847-705-4122

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

2673V-6 (9600 block of W. 55th St), 2673V-31(9665 W. 55th St), 2673V-40 (5710-5740 East Ave), 2673V-51 (9550 Joliet Rd)

City: Countryside, Hodgkins State: IL Zip Code: 60525

County: Cook Township: Lyons

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

Latitude: 41.79078 Longitude: - 87.8589

(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: _____ BOW: _____ BOA: _____

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

Estimated Volume of debris (cu. Yd.): 1,392

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 Fig 4-1 in the Final PSI Rpt and borings 2673V-31-01 (W. 55th Street 305+00, 35 Right), 2673V-40-01 (East Avenue 218+00 45 Left), and 2673V-51-01 (East Avenue 205+00 40 Right).

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 #20-0942, 20-0971, 20-0977, and 20-1014. 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))

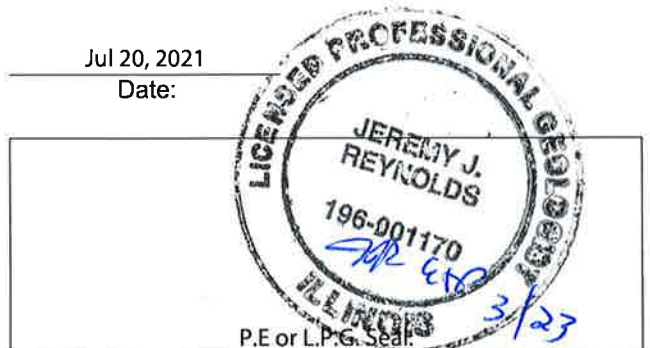
Company Name: Huff & Huff, Inc. / GZA GeoEnvironmental, Inc.
Street Address: 915 Harger Road, Suite 330
City: Oak Brook State: IL Zip Code: 60523
Phone: 630-684-9100

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



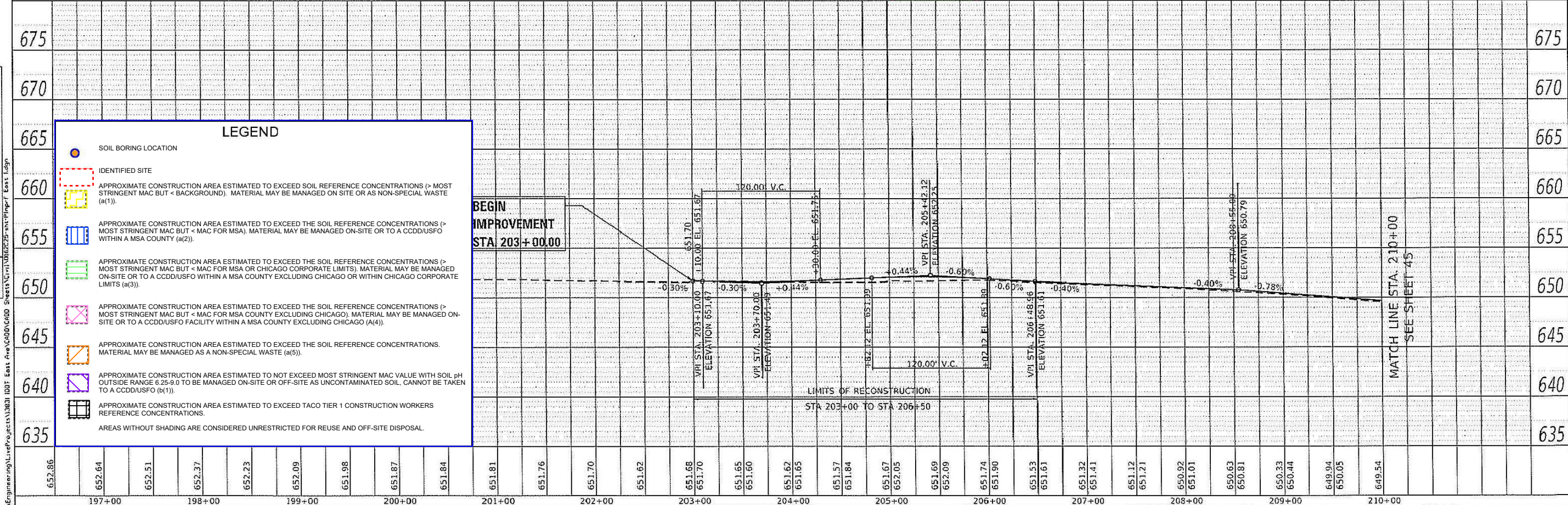
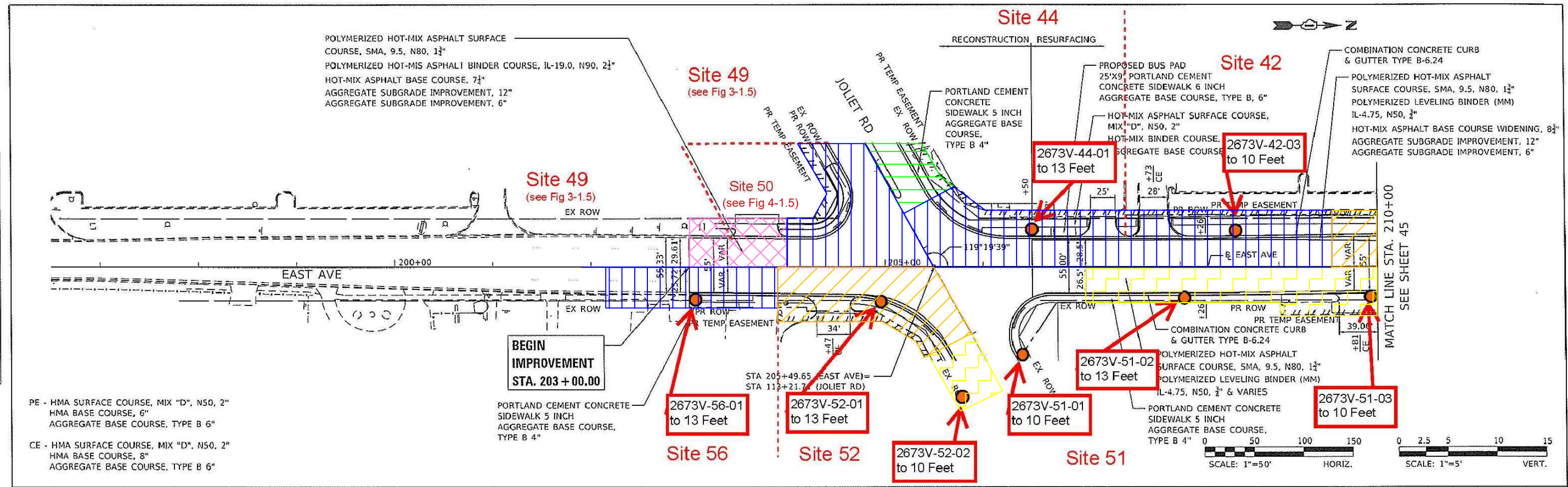
Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Jul 20, 2021
Date:



DATE	
BY	
REVISION	
NO.	
DATE	
BY	
REVISION	
NO.	
DATE	
BY	
REVISION	
NO.	

DATE	
BY	
REVISION	
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NO.	
DATE	
BY	
REVISION	
NO.	



652.86	652.64	652.51	652.37	652.23	652.09	651.98	651.87	651.84	651.81	651.76	651.70	651.62	651.68	651.70	651.65	651.60	651.62	651.65	651.57	651.84	651.67	652.05	651.69	652.09	651.74	651.90	651.53	651.61	651.32	651.41	651.12	651.21	650.92	651.01	650.63	650.81	650.33	650.44	649.94	650.05	649.54	
197+00	198+00	199+00	200+00	201+00	202+00	203+00	204+00	205+00	206+00	207+00	208+00	209+00	210+00																													

Accurate GROUP, INC.

USER NAME = john
DESIGNED - JMT
DRAWN - JN
PLOT SCALE = 1/80,000 @ 1/4" = 100'
PLOT DATE = 6/7/2019

REVISIONS:
 REVISION NO. | DATE | BY | DESCRIPTION
 1 | 04/13/2018 | JMT | DESIGNED
 2 | 04/13/2018 | JN | DRAWN
 3 | 04/13/2018 | TGM | CHECKED
 4 | 04/13/2018 | TGM | CHECKED

FIGURE 4-1.1 Extent of Potentially Impacted Soil
Huff & Huff, Inc. WO #33A

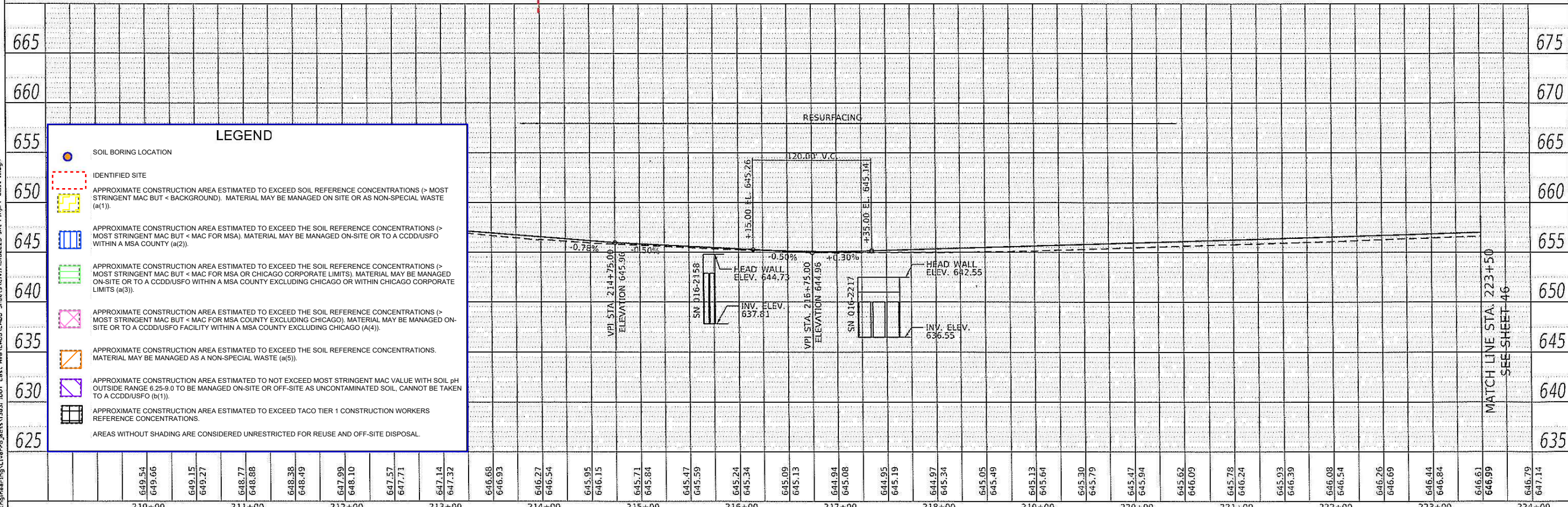
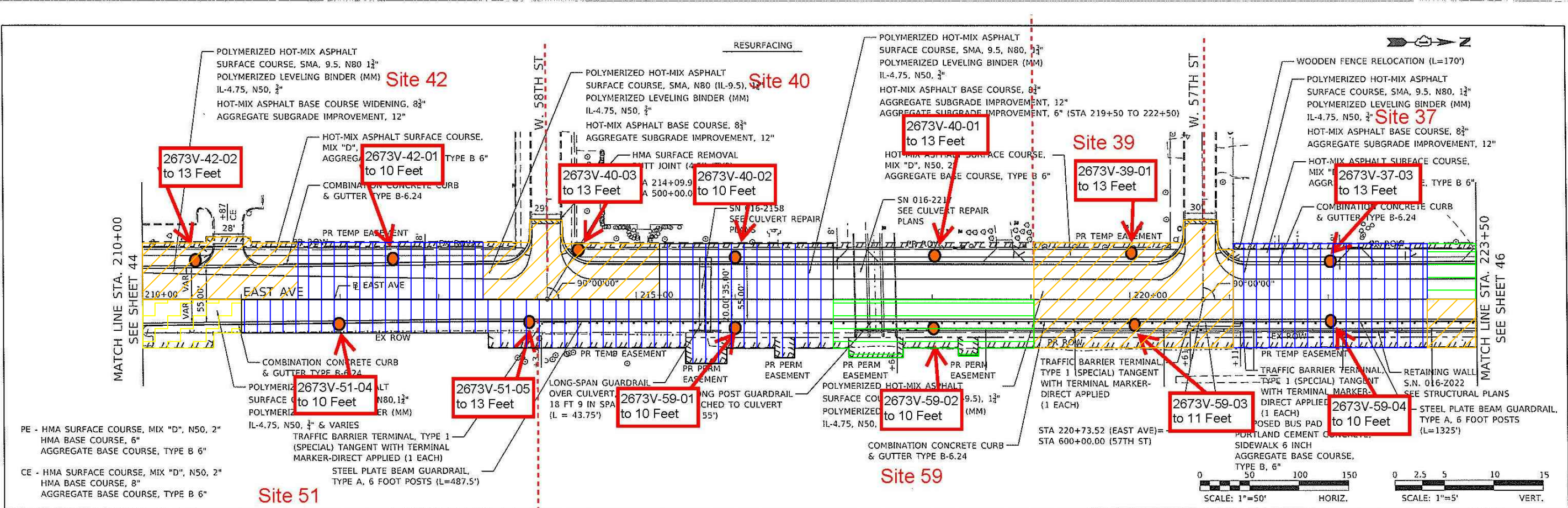
EAST AVE. PLAN AND PROFILE-I
EAST AVENUE (55TH ST. TO JOLIET RD.)

1"=50' SHEET OF SHEETS STA. 203+00 TO STA. 210+00

F.A.U. R.T.E. 2719	SECTION 0102N&T	COUNTY COOK	TOTAL SHEETS 354	SHEET NO. 44
CONTRACT NO. 62C25			ILLINOIS FED. AID PROJECT	

DATE	
BY	
PLANNING	
DESIGN	
CHECKING	
DATE	
BY	
DATE	
BY	

DATE	
BY	
PLANNING	
DESIGN	
CHECKING	
DATE	
BY	
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BY	

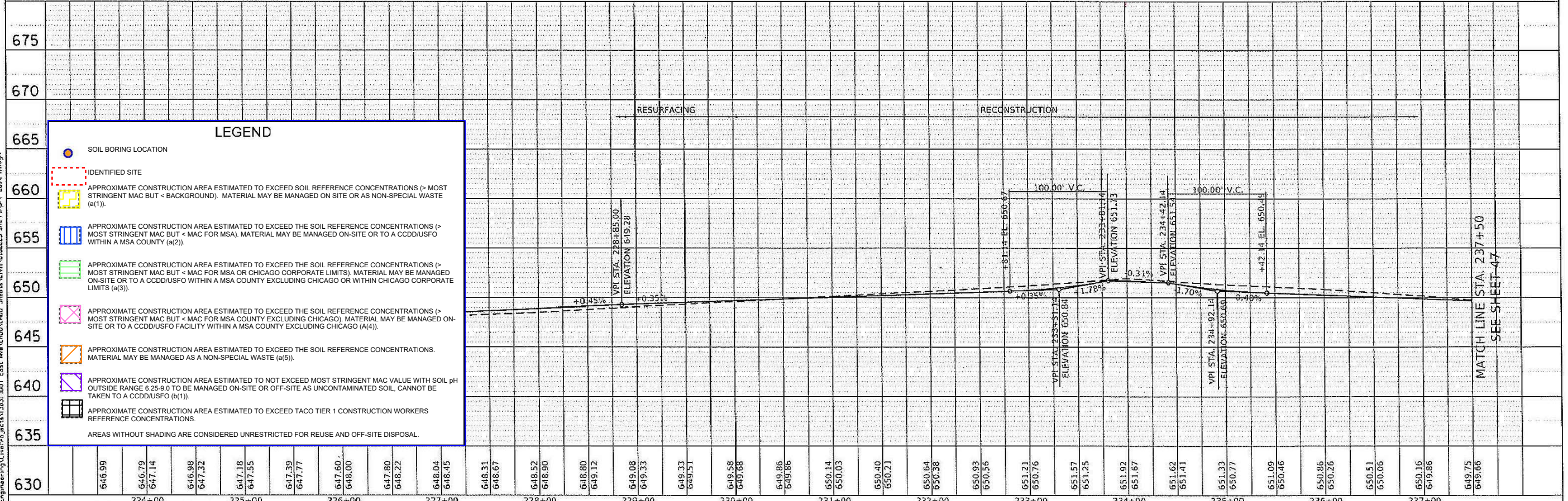
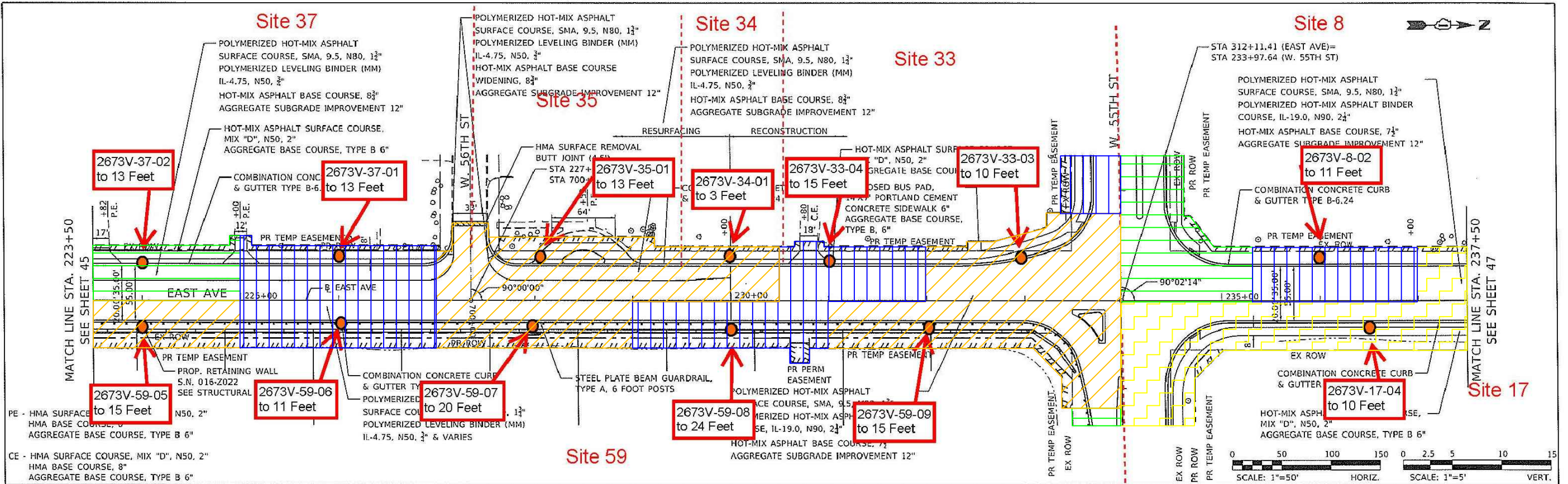


LEGEND	
	SOIL BORING LOCATION
	IDENTIFIED SITE
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < BACKGROUND). MATERIAL MAY BE MANAGED ON-SITE OR AS NON-SPECIAL WASTE (a(1)).
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA). MATERIAL MAY BE MANAGED ON-SITE OR TO A CDDIUSFO 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 CDDIUSFO 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 CDDIUSFO 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 CDDIUSFO (b(1)).
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED TACO TIER 1 CONSTRUCTION WORKERS REFERENCE CONCENTRATIONS.
	AREAS WITHOUT SHADING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.

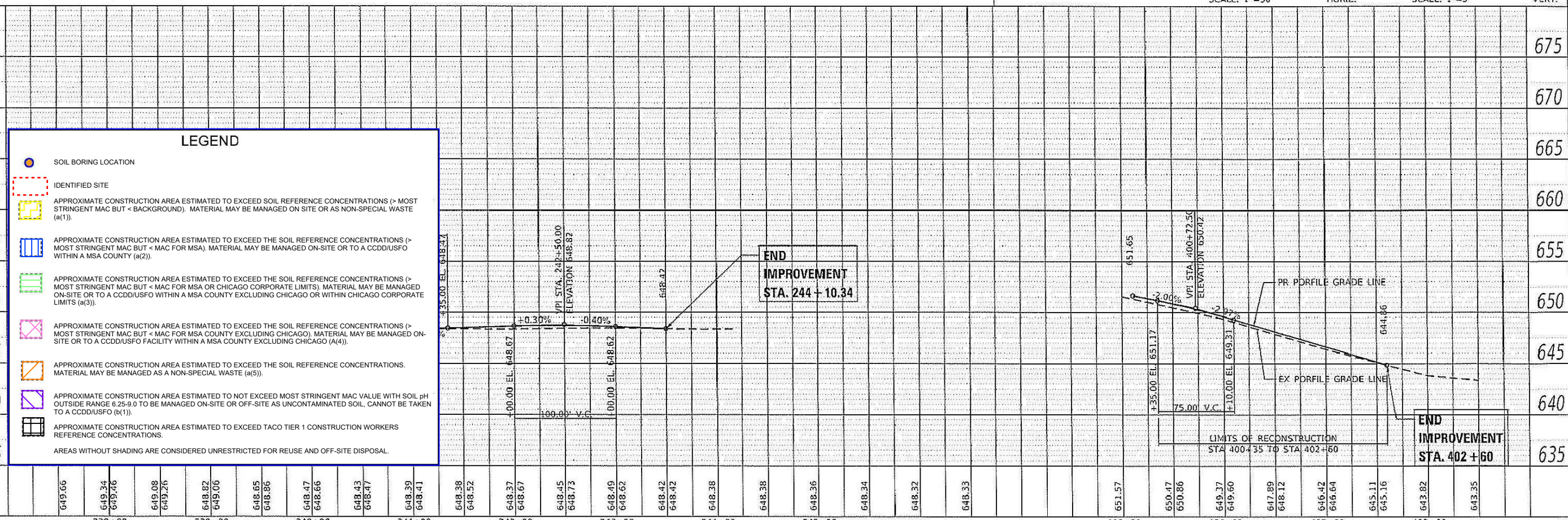
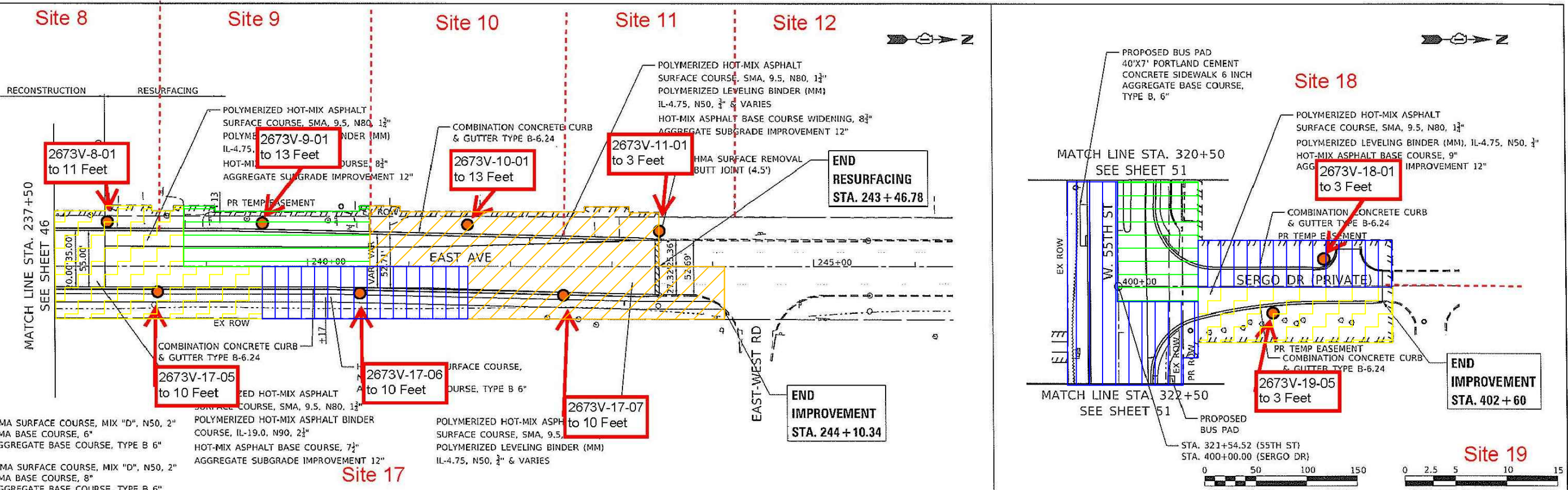
FIGURE 4-1.2 Extent of Potentially Impacted Soil
 Huff & Huff, Inc. WO #33A

DATE	
BY	
APPROVED	
ALIGNED	
CHECKED	
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
NO. 9	
NO. 10	

DATE	
BY	
APPROVED	
ALIGNED	
CHECKED	
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
NO. 9	
NO. 10	



LEGEND	
	SOIL BORING LOCATION
	IDENTIFIED SITE
	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 SHADING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.	



LEGEND	
	SOIL BORING LOCATION
	IDENTIFIED SITE
	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 (> 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 (> 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 (> 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 TACO TIER 1 CONSTRUCTION WORKERS REFERENCE CONCENTRATIONS.
	AREAS WITHOUT SHADING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.

DATE	BY

DATE	BY

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USER NAME = johann
 DESIGNED - JMT
 DRAWN - JN
 CHECKED - TGM
 DATE - 04/13/2018

REVISED -
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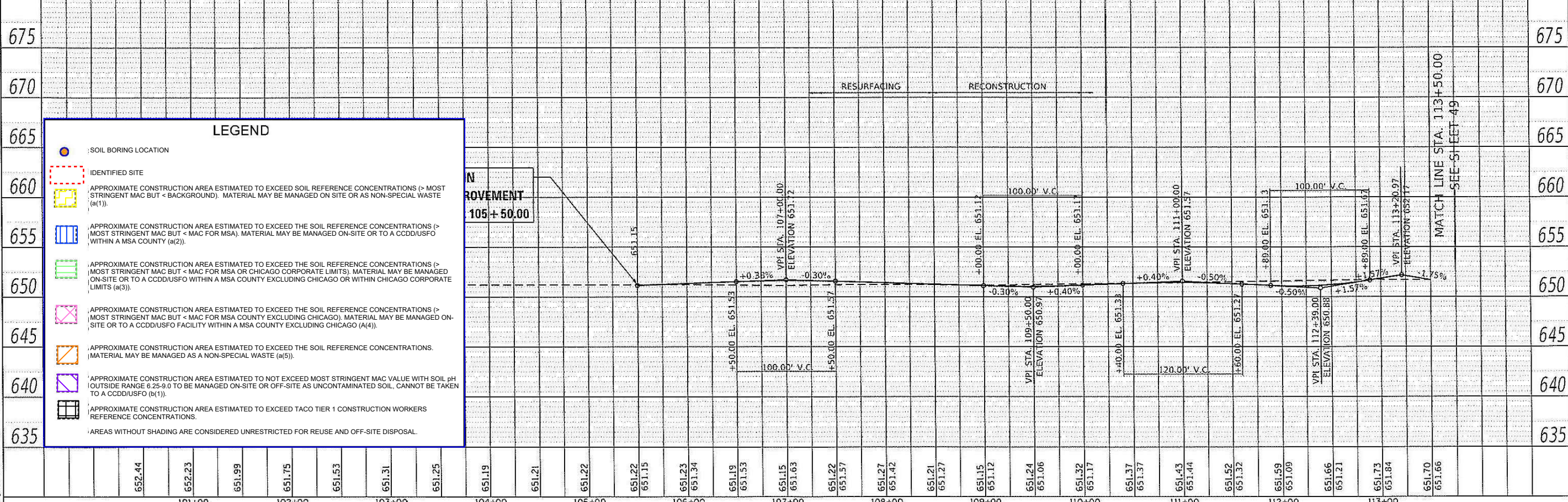
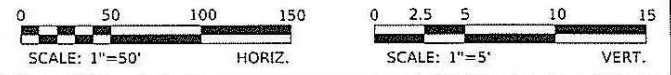
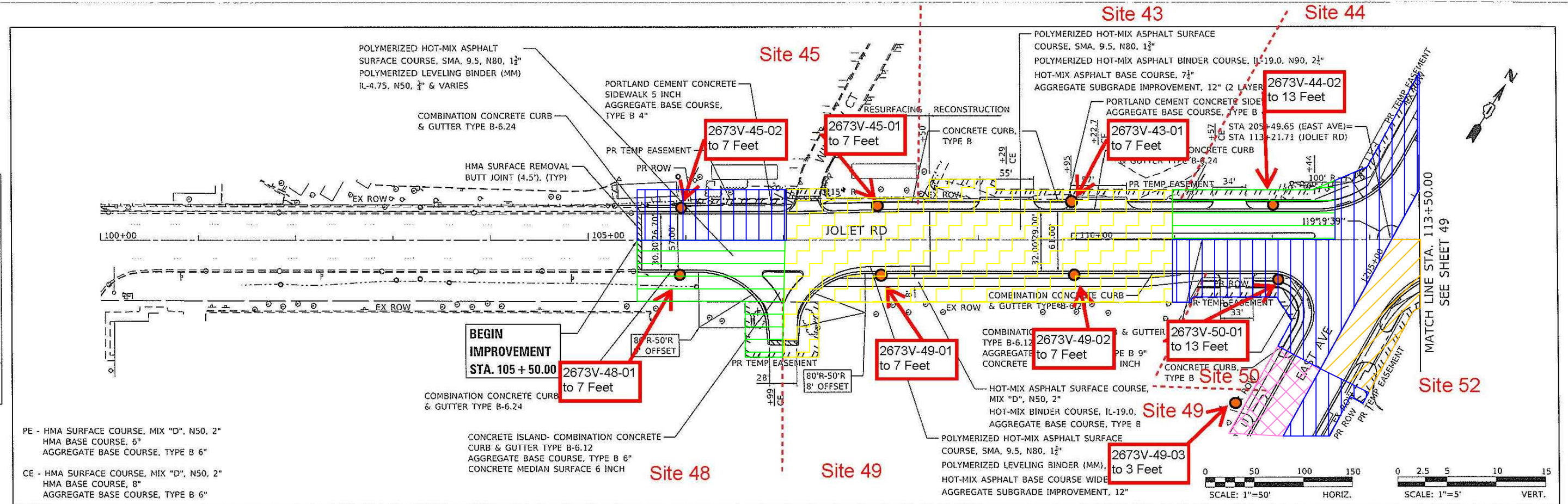
FIGURE 4-1.4 Extent of Potentially Impacted Soil
Huff & Huff, Inc. WO #33A

EAST AVE. PLAN AND PROFILE-IV
 EAST AVENUE (55TH ST. TO JOLIET RD.)
 SCALE: 1"=50'

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	354	47
		CONTRACT NO.	62C25	

DATE	
BY	
REVISION	
NO.	
DESCRIPTION	
DATE	
BY	
REVISION	
NO.	
DESCRIPTION	
DATE	
BY	
REVISION	
NO.	
DESCRIPTION	

DATE	
BY	
REVISION	
NO.	
DESCRIPTION	
DATE	
BY	
REVISION	
NO.	
DESCRIPTION	
DATE	
BY	
REVISION	
NO.	
DESCRIPTION	



652.44	652.23	651.99	651.75	651.53	651.31	651.25	651.19	651.21	651.22	651.22	651.15	651.23	651.34	651.19	651.53	651.15	651.63	651.22	651.57	651.27	651.42	651.21	651.27	651.15	651.12	651.24	651.06	651.32	651.17	651.37	651.37	651.43	651.44	651.52	651.32	651.59	651.09	651.66	651.21	651.73	651.84	651.70	651.66		
101+00	102+00	103+00	104+00	105+00	106+00	107+00	108+00	109+00	110+00	111+00	112+00	113+00																																	



USER NAME	JOHN	DESIGNED	JMT	REVISED	-
DRAWN	JN	CHECKED	TGM	REVISOR	-
DATE	04/13/2018				

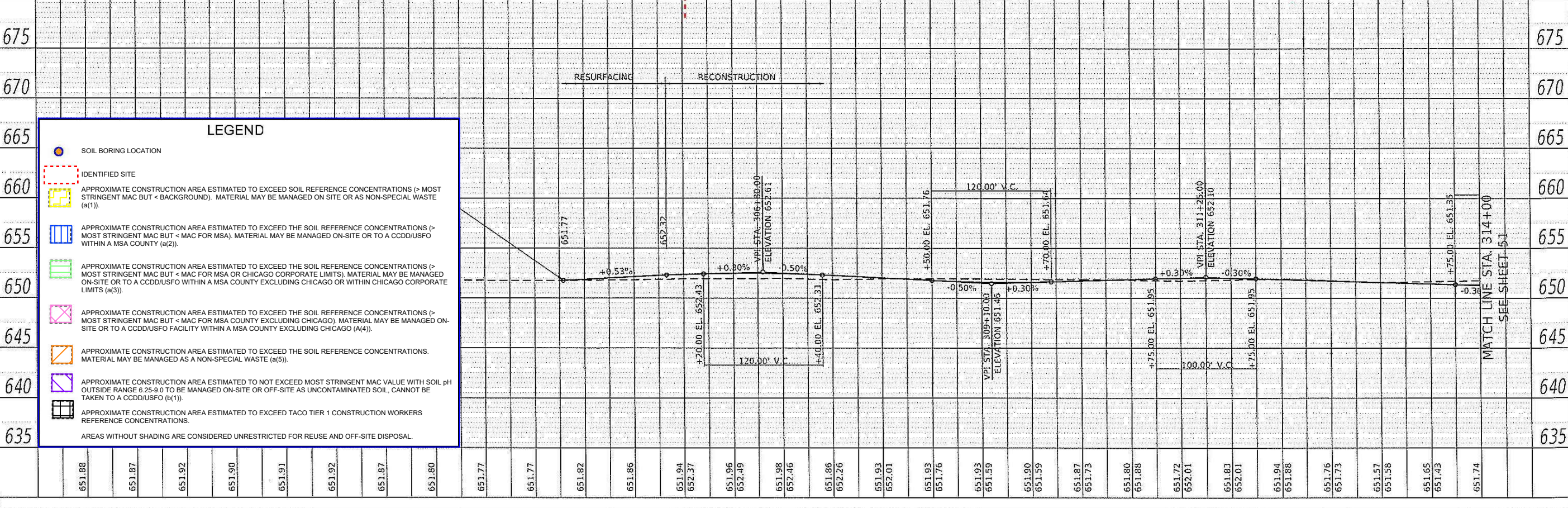
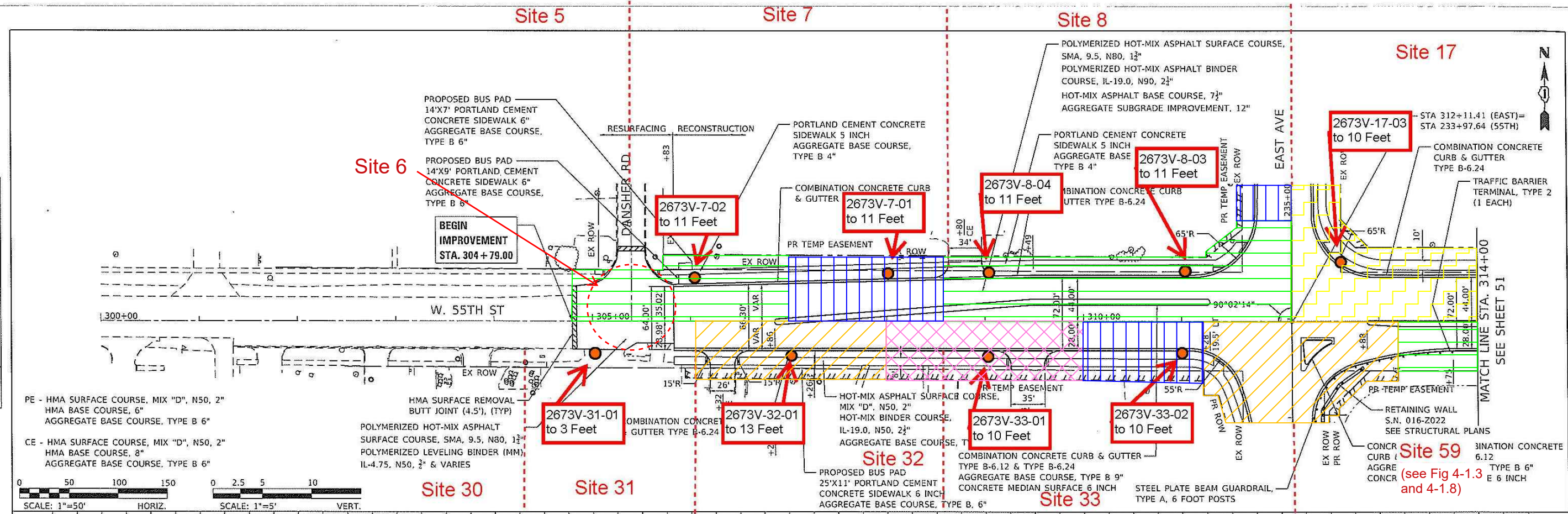
FIGURE 4-1.5 Extent of Potentially Impacted Soil
 Huff & Huff, Inc. WO #33A

JOLIET RD. PLAN AND PROFILE-I
 EAST AVENUE (55TH ST. TO JOLIET RD.)

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	354	48
SHEET OF SHEETS		STA. TO STA.	CONTRACT NO. 62C25	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
APPROVED	
NOTED	
NO.	

DATE	
BY	
APPROVED	
NOTED	
NO.	



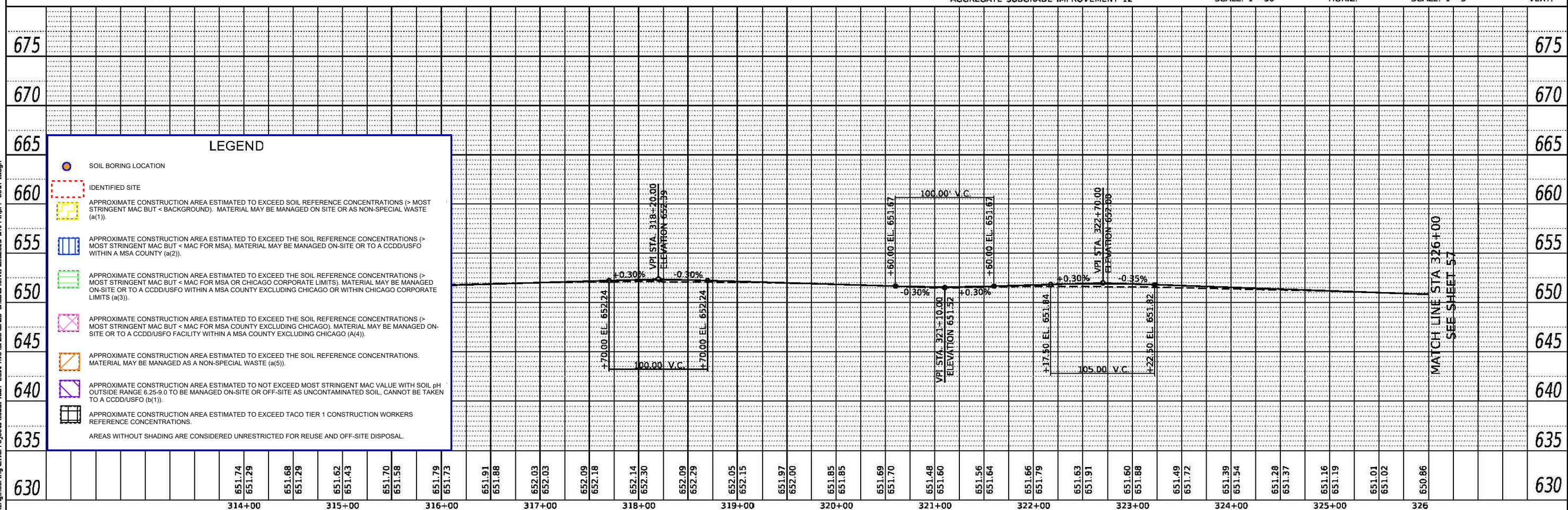
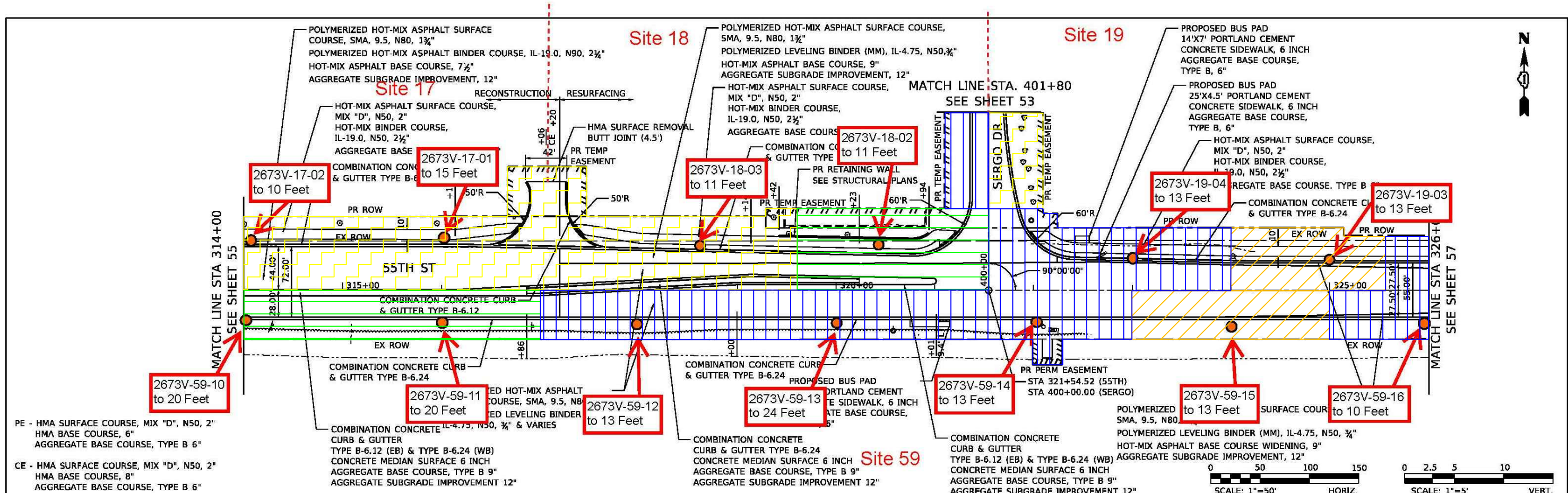
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USER NAME	john
DESIGNED	JMT
REVISIONS	
DRAWN	JN
REVISIONS	
CHECKED	TGM
REVISIONS	
DATE	04/13/2018
REVISIONS	

FIGURE 4-1.7 Extent of Potentially Impacted Soil
Huff & Huff, Inc. WO #33A

SCALE	1"=50'
SHEET	OF SHEETS
STA.	305+83 TO STA. 314+00

F.A.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	354	50
CONTRACT NO. 62C25			ILLINOIS FED. AID PROJECT	

PLAN
DATE
BY
CHECKED
NO. OF MAY CHECKED
DATE FILE NAME



PROFILE
DATE
BY
CHECKED
NO. OF MAY CHECKED
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LEGEND

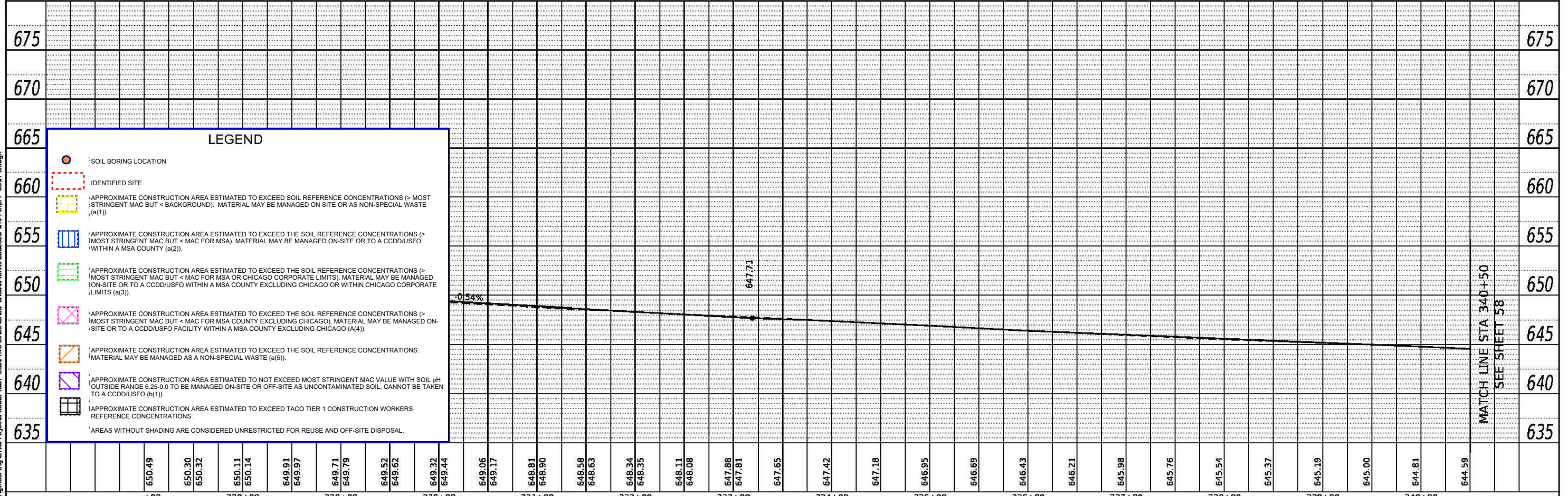
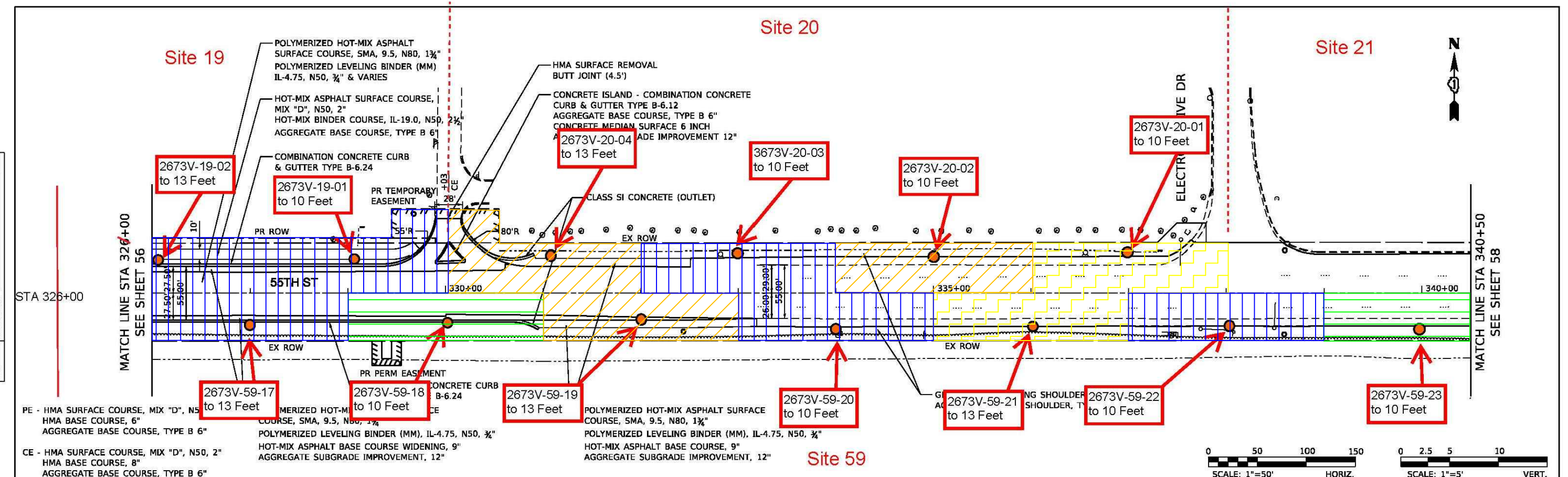
- SOIL BORING LOCATION
- IDENTIFIED SITE
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < BACKGROUND). MATERIAL MAY BE MANAGED ON-SITE OR AS NON-SPECIAL WASTE (a)(1).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> 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 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 6.25-8.0 TO BE MANAGED ON-SITE OR OFF-SITE AS UNCONTAMINATED SOIL. CANNOT BE TAKEN TO A CCDD/USFO (a)(1).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED TACO TIER 1 CONSTRUCTION WORKERS REFERENCE CONCENTRATIONS.

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

USER NAME = john DESIGNED = JMT DRAWN = JN CHECKED = TGM DATE = 09/13/2019	REVISIONS REVISION REVISION REVISION REVISION REVISION	FIGURE 4-1.8 Extent of Potentially Impacted Soil Huff & Huff, Inc. WO #33A	55TH ST PLAN AND PROFILE - II EAST AVENUE (55TH ST TO JOLIET RD) STA. 314+00 TO STA. 325+50	COUNTY COOK TOTAL SHEETS 373 SHEET NO. 56 CONTRACT NO. 62C25
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PLAN	SURVEYED	DATE
	PLOTTED	
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	BY	
	NO. OF MAY CHECKED	
	DATE FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO. OF MAY CHECKED	
	DATE FILE NAME	



Accurate GROUP, INC.

USER NAME = john

DESIGNED - JMT

REVISIED -

DRAWN - JN

REVISIED -

CHECKED - TGM

REVISIED -

DATE - 09/13/2019

REVISIED -

FIGURE 4-1.9 Extent of Potentially Impacted Soil
 Huff & Huff, Inc. WO #33A

55TH ST PLAN AND PROFILE - III
 EAST AVENUE (55TH ST TO JOLIET RD)

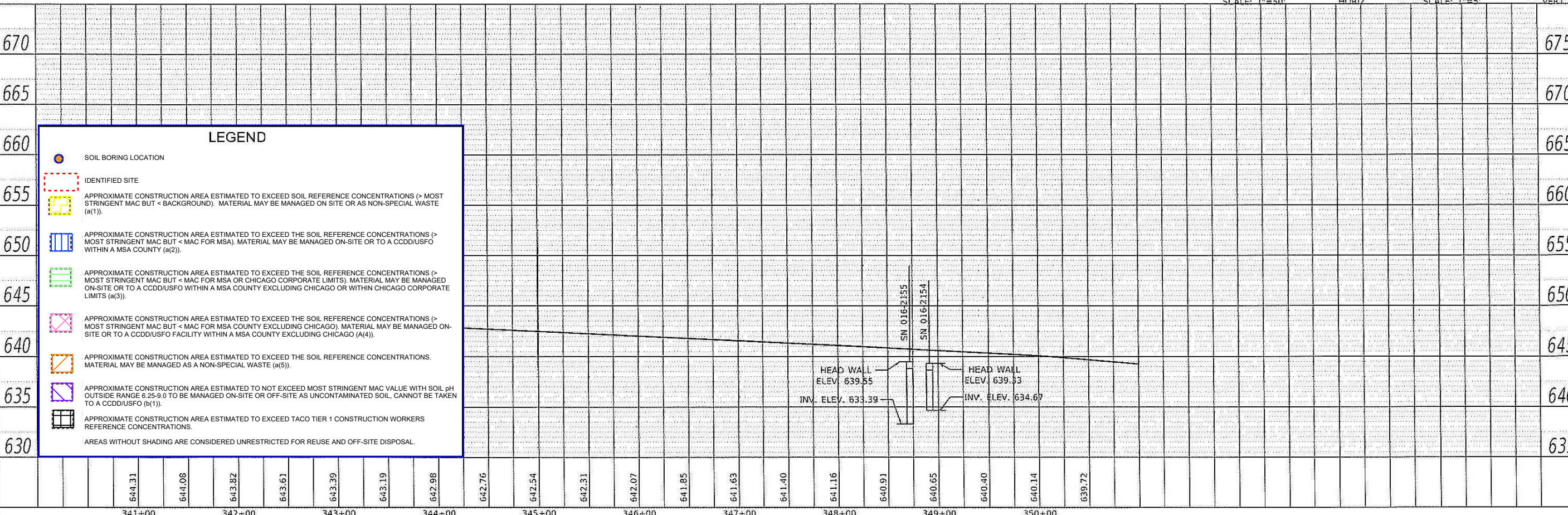
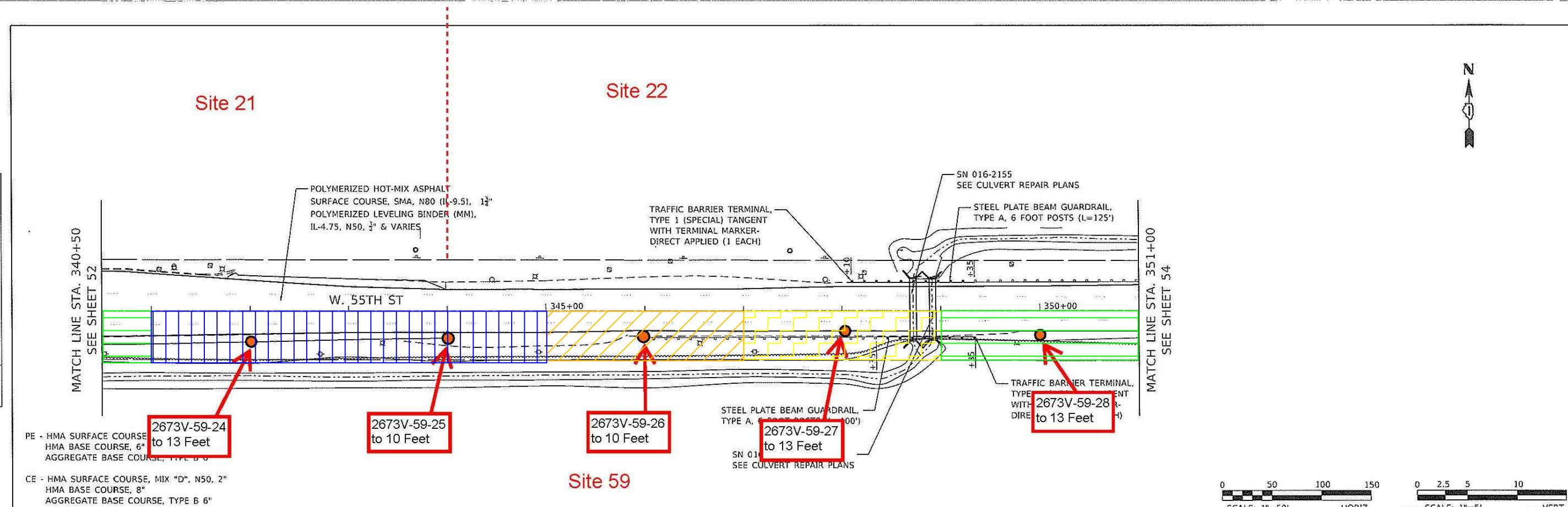
SCALE: 1"=50' SHEET OF SHEETS STA. 325+50 TO STA. 340+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	373	57

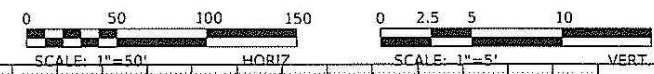
CONTRACT NO. 62C25 ILLINOIS FED. AID PROJECT

DATE	
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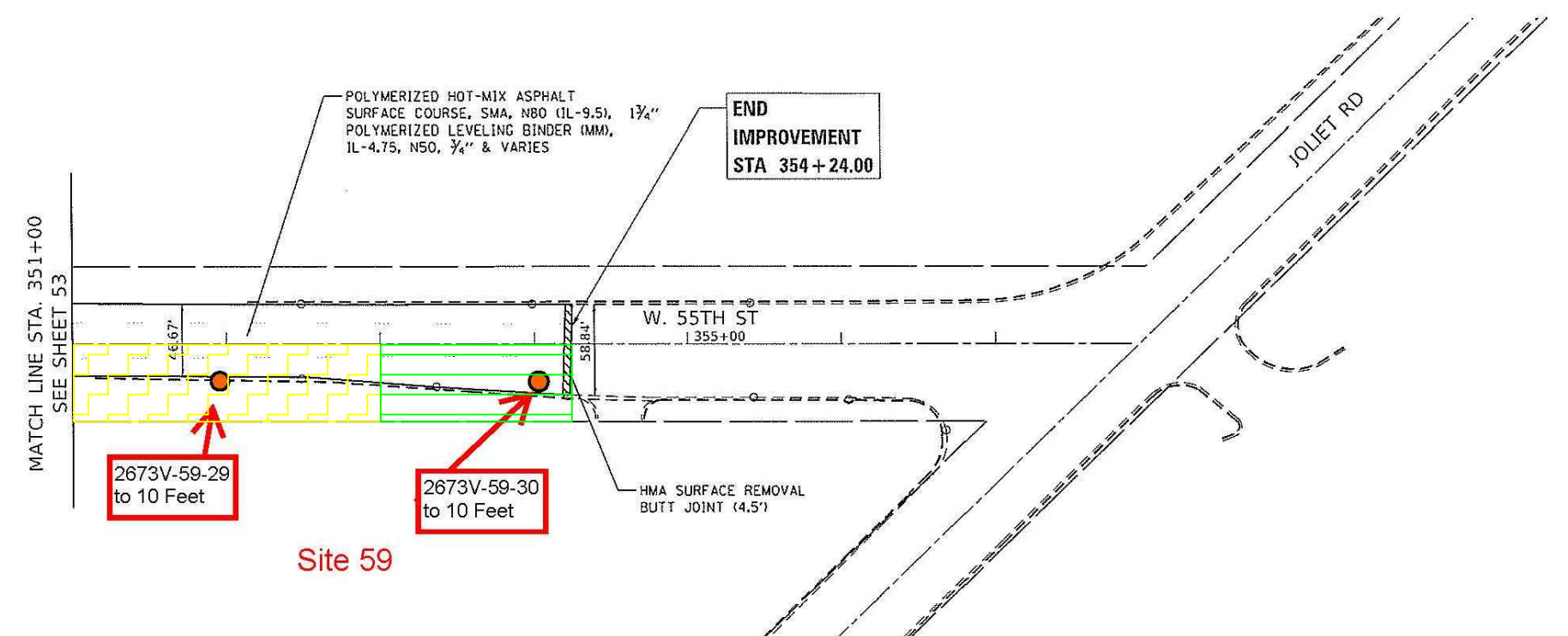
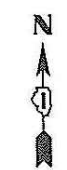
DATE	
BY	
REVISIONS	
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DESCRIPTION	
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LEGEND	
	SOIL BORING LOCATION
	IDENTIFIED SITE
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < BACKGROUND). 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 SHADING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.	



Site 22



LEGEND

-  SOIL BORING LOCATION
 -  IDENTIFIED SITE
 -  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 CCDDIUSFO 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 CCDDIUSFO 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 CCDDIUSFO 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 CCDDIUSFO (a(1)).
 -  APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED TACO TIER 1 CONSTRUCTION WORKERS REFERENCE CONCENTRATIONS.
- AREAS WITHOUT SHADING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.

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PLOT SCALE = 100.0000 1" = 100'	DRAWN - JN	REVISED -
PLOT DATE = 6/7/2019	CHECKED - TGM	REVISED -
	DATE - 07/31/2018	REVISED -

FIGURE 4-1.11 Extent of Potentially Impacted Soil
Huff & Huff, Inc. WO #33A

55TH ST. PLAN AND PROFILE-V
EAST AVENUE (55TH ST. TO JOLIET RD.)

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	354	54
CONTRACT NO. 62C25			ILLINOIS FED. AID PROJECT	

SHEET OF SHEETS STA. 350+00 TO STA. 354+24

LPC-663 Results
Soils for Unrestricted Reuse or Disposal at CCDD Facilities
IDOT, District One
East Avenue, 55th St to Joliet Rd
Countryside, Illinois
BDE Sequence No.: 17471B
PTB: 178-008/HH-1, Work Order No.: 33A

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/}	2673V-31-01	2673V-Dup-19 (2673V-31-01)	2673V-40-01	2673V-40-01	2673V-51-01	2673V-51-01
				(0-3)	(0-3)	(0-5)	(5-10)	(0-5)	(5-10)
				2/21/2020	2/21/2020	2/21/2020	2/21/2020	2/20/2020	2/20/2020
				2673V-31		2673V-40		2673V-51	
Parameter									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	8.05	8.16	8.09	8	8.55	8.6
VOCs, mg/kg				NO EXCEEDANCES					
SVOCs, mg/kg				NO EXCEEDANCES					
Total Metals, mg/kg									
Arsenic	11.3 / 13	61	13	10.6	5.5	10.4	5.3	8.9	3.8
Beryllium	22	410	160	0.6	<0.5	<0.5	0.6	0.8	0.6
Chromium	21	690	230	19.4	14.7	13.3	21.5	28.9	21.5
Cobalt	20	12,000	4700	14.3	8.7	13.4	11.4	18.6	6.7
Iron	15,000 / 15,900	---	---	23200	16400	24600	23400	30400	19800
Lead	107	700	400	18.8	11.7	19.7	12.5	16.8	9.6
Manganese	630 / 636	4,100	1600	465	277	420	351	645	236
Nickel	100	4,100	1600	35.3	23.6	40.3	31.6	48.2	24.2
TCLP Metals, mg/L		Class I Groundwater ^{d/}							
Arsenic		0.05		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Beryllium		0.004		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chromium		0.1		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cobalt		1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Iron		5		<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	4.5	2.5	2	<0.1	0.5
Nickel		0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SPLP Metals, mg/L		Class I Groundwater ^{d/}							
Arsenic		0.05		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Beryllium		0.004		<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Chromium		0.1		0.01	<0.005	<0.005	<0.005	<0.005	0.012
Cobalt		1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Iron		5		7.5	1.6	0.8	0.1	1.5	9.1
Lead		0.0075		0.007	<0.005	<0.005	<0.005	<0.005	0.005
Manganese		0.15		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel		0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

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

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


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.

^{b/} Soil Remediation Objective for Construction Workers, most stringent of the Ingestion or Inhalation exposure route.

^{c/} Soil Remediation Objective for Residential exposure, most stringent of the Ingestion or Inhalation exposure route.

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

Bold indicates concentration detected

 Shaded values indicate concentration exceeds reference concentration



March 02, 2020

Ms. Jill Connolly
HUFF & HUFF INC.
915 Harger Road
Suite 330
Oak Brook, IL 60523

Project ID: IDOT WO33 East Ave 81.0220509.67
First Environmental File ID: 20-0971
Date Received: February 21, 2020

Dear Ms. Jill Connolly:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 004324: effective 04/23/2019 through 02/28/2020.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Ryan Gerrick
Project Manager



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-51-01 (0-5)
Sample No: 20-0971-001

Date Collected: 02/20/20
Time Collected: 10:35
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/24/20				
Total Solids	80.87		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO33 East Ave 81.0220509.67
Sample ID: 2673V-51-01 (0-5)
Sample No: 20-0971-001

Date Collected: 02/20/20
Time Collected: 10:35
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
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: 02/25/20				
Preparation Date: 02/24/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-51-01 (0-5)
Sample No: 20-0971-001

Date Collected: 02/20/20
Time Collected: 10:35
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/25/20		Preparation Date: 02/24/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-51-01 (0-5)
Sample No: 20-0971-001

Date Collected: 02/20/20
Time Collected: 10:35
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/25/20				Preparation Date: 02/24/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/25/20				Preparation Date: 02/24/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.9	1.0	mg/kg	
Barium	151	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	8,960	50	mg/kg	
Chromium	28.9	0.5	mg/kg	
Cobalt	18.6	0.5	mg/kg	
Copper	30.3	0.5	mg/kg	
Iron	30,400	5.0	mg/kg	
Lead	16.8	0.5	mg/kg	
Magnesium	8,810	50	mg/kg	
Manganese	645	0.5	mg/kg	
Nickel	48.2	0.5	mg/kg	
Potassium	1,990	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	226	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-51-01 (0-5)
Sample No: 20-0971-001

Date Collected: 02/20/20
Time Collected: 10:35
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/25/20		Method: 6010C	Preparation Method 3050B Preparation Date: 02/24/20	
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	33.7	1.0	mg/kg	
Zinc	59.4	1.0	mg/kg	
Total Mercury Analysis Date: 02/24/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/24/20		Method: 9045D 2004		
pH @ 25°C, 1:2	8.55		Units	
TCLP Extraction Analysis Date: 02/24/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/26/20		Method: 6010C	Preparation Method 3010A Preparation Date: 02/25/20	
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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 Analysis Date: 02/26/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC. **Date Collected:** 02/20/20
Project ID: IDOT WO33 East Ave 81.0220509.67 **Time Collected:** 10:35
Sample ID: 2673V-51-01 (0-5) **Date Received:** 02/21/20
Sample No: 20-0971-001 **Date Reported:** 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/24/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/26/20		Preparation Date: 02/25/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	1.5	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: 02/27/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-51-01 (0-5)
Sample No: 20-0971-001

Date Collected: 02/20/20
Time Collected: 10:35
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 105.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 101.2	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 100	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 89.9	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 59.2	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 56.7	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 85	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 72.6	35 - 105	
8270C	Phenol-d5 (surr)	%R: 63.8	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-51-01 (5-10)
Sample No: 20-0971-002

Date Collected: 02/20/20
Time Collected: 10:40
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/24/20				
Total Solids	83.36		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO33 East Ave 81.0220509.67
Sample ID: 2673V-51-01 (5-10)
Sample No: 20-0971-002

Date Collected: 02/20/20
Time Collected: 10:40
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/26/20				
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: 02/25/20				
Preparation Date: 02/24/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-51-01 (5-10)
Sample No: 20-0971-002

Date Collected: 02/20/20
Time Collected: 10:40
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/25/20		Preparation Date: 02/24/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-51-01 (5-10)
Sample No: 20-0971-002

Date Collected: 02/20/20
Time Collected: 10:40
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/25/20		Preparation Date: 02/24/20		
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/25/20		Preparation Date: 02/24/20		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.8	1.0	mg/kg	
Barium	49.1	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	54,600	50	mg/kg	
Chromium	21.5	0.5	mg/kg	
Cobalt	6.7	0.5	mg/kg	
Copper	19.3	0.5	mg/kg	
Iron	19,800	5.0	mg/kg	
Lead	9.6	0.5	mg/kg	
Magnesium	23,100	50	mg/kg	
Manganese	236	0.5	mg/kg	
Nickel	24.2	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	237	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-51-01 (5-10)
Sample No: 20-0971-002

Date Collected: 02/20/20
Time Collected: 10:40
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/25/20				Preparation Date: 02/24/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	22.7	1.0	mg/kg	
Zinc	47.5	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/24/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/24/20				
pH @ 25°C, 1:2	8.60		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/24/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/26/20				Preparation Date: 02/25/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.5	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: 02/26/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC. **Date Collected:** 02/20/20
Project ID: IDOT WO33 East Ave 81.0220509.67 **Time Collected:** 10:40
Sample ID: 2673V-51-01 (5-10) **Date Received:** 02/21/20
Sample No: 20-0971-002 **Date Reported:** 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/24/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/26/20		Preparation Date: 02/25/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.012	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.009	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: 02/27/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO33 East Ave 81.0220509.67
Sample ID: 2673V-51-01 (5-10)
Sample No: 20-0971-002

Date Collected: 02/20/20
Time Collected: 10:40
Date Received: 02/21/20
Date Reported: 03/02/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 104.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 102.5	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 103.4	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 89	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 59.5	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 57	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 85.2	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 74	35 - 105	
8270C	Phenol-d5 (surr)	%R: 66.2	50 - 100	



March 06, 2020

Mr. Shane Cuplin
HUFF & HUFF INC.
915 Harger Road
Suite 330
Oak Brook, IL 60523

Project ID: IDOT WO# 33 81.0220509.67
First Environmental File ID: 20-0977
Date Received: February 21, 2020

Dear Mr. Shane Cuplin:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 004324: effective 04/23/2019 through 02/28/2020.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Ryan Gerrick
Project Manager



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-31-01 (0-3)
Sample No: 20-0977-031

Date Collected: 02/21/20
Time Collected: 9:50
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	81.76		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/27/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-31-01 (0-3)
Sample No: 20-0977-031

Date Collected: 02/21/20
Time Collected: 9:50
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/27/20				
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: 02/29/20				
Preparation Date: 02/27/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-31-01 (0-3)
Sample No: 20-0977-031

Date Collected: 02/21/20
Time Collected: 9:50
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/29/20		Preparation Date: 02/27/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-31-01 (0-3)
Sample No: 20-0977-031

Date Collected: 02/21/20
Time Collected: 9:50
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/29/20				Preparation Date: 02/27/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/28/20				Preparation Date: 02/26/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	10.6	1.0	mg/kg	
Barium	61.2	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	46,800	50	mg/kg	
Chromium	19.4	0.5	mg/kg	
Cobalt	14.3	0.5	mg/kg	
Copper	31.6	0.5	mg/kg	
Iron	23,200	5.0	mg/kg	
Lead	18.8	0.5	mg/kg	
Magnesium	21,200	50	mg/kg	
Manganese	465	0.5	mg/kg	
Nickel	35.3	0.5	mg/kg	
Potassium	2,370	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	304	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-31-01 (0-3)
Sample No: 20-0977-031

Date Collected: 02/21/20
Time Collected: 9:50
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		
Analysis Date: 02/28/20		Preparation Method 3050B		
		Preparation Date: 02/26/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	25.9	1.0	mg/kg	
Zinc	57.2	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/26/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/28/20 16:00				
pH @ 25°C, 1:2	8.05		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/25/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 03/04/20		Preparation Method 3010A		
		Preparation Date: 03/02/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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: 02/27/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-31-01 (0-3)
Sample No: 20-0977-031

Date Collected: 02/21/20
Time Collected: 9:50
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/25/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/03/20		Preparation Date: 03/02/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.010	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.009	0.005	mg/L	
Iron	7.5	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: 03/02/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-31-01 (0-3)
Sample No: 20-0977-031

Date Collected: 02/21/20
Time Collected: 9:50
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 97	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 101.5	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 102.2	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 72.3	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 69.1	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 68.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 83.4	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 84.6	35 - 105	
8270C	Phenol-d5 (surr)	%R: 72.5	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-DUP-19
Sample No: 20-0977-107

Date Collected: 02/21/20
Time Collected: 9:00
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	80.00		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/03/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-DUP-19
Sample No: 20-0977-107

Date Collected: 02/21/20
Time Collected: 9:00
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/03/20				
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: 03/04/20				
Preparation Date: 03/02/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-DUP-19
Sample No: 20-0977-107

Date Collected: 02/21/20
Time Collected: 9:00
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/04/20		Preparation Date: 03/02/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-DUP-19
Sample No: 20-0977-107

Date Collected: 02/21/20
Time Collected: 9:00
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/04/20				Preparation Date: 03/02/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 03/02/20				Preparation Date: 03/02/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.5	1.0	mg/kg	
Barium	44.7	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	33,300	50	mg/kg	
Chromium	14.7	0.5	mg/kg	
Cobalt	8.7	0.5	mg/kg	
Copper	19.1	0.5	mg/kg	
Iron	16,400	5.0	mg/kg	
Lead	11.7	0.5	mg/kg	
Magnesium	16,100	50	mg/kg	
Manganese	277	0.5	mg/kg	
Nickel	23.6	0.5	mg/kg	
Potassium	2,040	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	232	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-DUP-19
Sample No: 20-0977-107

Date Collected: 02/21/20
Time Collected: 9:00
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Preparation Method 3050B				
Analysis Date: 03/02/20 Preparation Date: 03/02/20				
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	20.3	1.0	mg/kg	
Zinc	52.0	1.0	mg/kg	
Total Mercury Method: 7471B				
Analysis Date: 03/03/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 03/03/20 9:15				
pH @ 25°C, 1:2	8.16		Units	
TCLP Extraction Method: 1311				
Analysis Date: 02/27/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/05/20 Preparation Date: 03/04/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	4.5	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: 03/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-DUP-19
Sample No: 20-0977-107

Date Collected: 02/21/20
Time Collected: 9:00
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction Method: 1312				
Analysis Date: 02/27/20				
SPLP Metals Extraction Complete				
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/05/20 Preparation Date: 03/03/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	1.6	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
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: 03/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-DUP-19
Sample No: 20-0977-107

Date Collected: 02/21/20
Time Collected: 9:00
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte		Result	R.L.	Units	Flags
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:	98	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	110.7	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	100.6	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	82.8	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	75	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	103.1	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	91.9	35 -	105
8270C	Phenol-d5 (surr)	%R:	80.9	50 -	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-40-01 (0-5)
Sample No: 20-0977-058

Date Collected: 02/21/20
Time Collected: 11:45
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	85.89		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/28/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-40-01 (0-5)
Sample No: 20-0977-058

Date Collected: 02/21/20
Time Collected: 11:45
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/28/20				
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: 03/02/20				
Preparation Date: 03/01/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-40-01 (0-5)
Sample No: 20-0977-058

Date Collected: 02/21/20
Time Collected: 11:45
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/02/20		Preparation Date: 03/01/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-40-01 (0-5)
Sample No: 20-0977-058

Date Collected: 02/21/20
Time Collected: 11:45
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/02/20		Preparation Date: 03/01/20		
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/27/20		Preparation Date: 02/26/20		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	10.4	1.0	mg/kg	
Barium	30.1	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	30,300	50	mg/kg	
Chromium	13.3	0.5	mg/kg	
Cobalt	13.4	0.5	mg/kg	
Copper	46.2	0.5	mg/kg	
Iron	24,600	5.0	mg/kg	
Lead	19.7	0.5	mg/kg	
Magnesium	17,800	50	mg/kg	
Manganese	420	0.5	mg/kg	
Nickel	40.3	0.5	mg/kg	
Potassium	1,940	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	98	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-40-01 (0-5)
Sample No: 20-0977-058

Date Collected: 02/21/20
Time Collected: 11:45
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Preparation Method 3050B				
Analysis Date: 02/27/20 Preparation Date: 02/26/20				
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	17.6	1.0	mg/kg	
Zinc	61.0	1.0	mg/kg	
Total Mercury Method: 7471B				
Analysis Date: 02/28/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 03/02/20 9:30				
pH @ 25°C, 1:2	8.09		Units	
TCLP Extraction Method: 1311				
Analysis Date: 02/26/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/03/20 Preparation Date: 03/02/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	2.5	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: 02/28/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-40-01 (0-5)
Sample No: 20-0977-058

Date Collected: 02/21/20
Time Collected: 11:45
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/26/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/03/20		Preparation Date: 03/02/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	0.8	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: 03/02/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-40-01 (0-5)
Sample No: 20-0977-058

Date Collected: 02/21/20
Time Collected: 11:45
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 88.7	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 97	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 97.7	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 97.8	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 84.6	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 73.5	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 90.5	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 95.7	35 - 105	
8270C	Phenol-d5 (surr)	%R: 80	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO# 33 81.0220509.67
Sample ID: 2673V-40-01 (5-10)
Sample No: 20-0977-059

Date Collected: 02/21/20
Time Collected: 11:47
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/25/20				
Total Solids	82.96		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/28/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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 WO# 33 81.0220509.67
Sample ID: 2673V-40-01 (5-10)
Sample No: 20-0977-059

Date Collected: 02/21/20
Time Collected: 11:47
Date Received: 02/21/20
Date Reported: 03/06/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/28/20				
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: 03/02/20				
Preparation Date: 03/01/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



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Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/02/20		Preparation Date: 03/01/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



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Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/02/20				Preparation Date: 03/01/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
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: 02/28/20				Preparation Date: 02/26/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.3	1.0	mg/kg	
Barium	41.7	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	53,900	50	mg/kg	
Chromium	21.5	0.5	mg/kg	
Cobalt	11.4	0.5	mg/kg	
Copper	24.7	0.5	mg/kg	
Iron	23,400	5.0	mg/kg	
Lead	12.5	0.5	mg/kg	
Magnesium	24,400	50	mg/kg	
Manganese	351	0.5	mg/kg	
Nickel	31.6	0.5	mg/kg	
Potassium	3,150	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	147	50	mg/kg	



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Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Preparation Method 3050B				
Analysis Date: 02/28/20 Preparation Date: 02/26/20				
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	25.6	1.0	mg/kg	
Zinc	50.4	1.0	mg/kg	
Total Mercury Method: 7471B				
Analysis Date: 02/28/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 03/02/20 9:30				
pH @ 25°C, 1:2	8.00		Units	
TCLP Extraction Method: 1311				
Analysis Date: 02/26/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 03/03/20 Preparation Date: 03/02/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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: 02/28/20				
Mercury	< 0.0005	0.0005	mg/L	



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Time Collected: 11:47
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Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/26/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 03/03/20		Preparation Date: 03/02/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
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: 03/02/20				
Mercury	< 0.0005	0.0005	mg/L	



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Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 95.7	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 98.7	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 100.3	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 90.3	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 68.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 70.4	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 87.8	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 89	35 - 105	
8270C	Phenol-d5 (surr)	%R: 74.5	50 - 100	