

APPENDIX D

LPC-663 CCDD DOCUMENTS



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

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: FAP 525&FAP 345/US Route 20 over Harmony Crk Office Phone Number, if available: _____

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

2895-1(18N600 block of US-20),2895-3(18N445 US-20),2895-4(11700 to 11800 block of US-20),2895-8(12000 block of US-20)

City: Hampshire State: IL Zip Code: 60140

County: Kane / McHenry Township: T43N / Hampshire

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

Latitude: 42.141227 Longitude: -88.506076

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

ISGS Public Land Survey System - Approximate Center of multiple addresses

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Dept. of Transportation, District 1

Name: Illinois Dept. of Transportation, District 1

Street Address: 201 W Center Court

Street Address: 201 W Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4101

Zip Code: 60196 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@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.

Project Name: FAP 525&FAP 345/US Route 20 over Harmony Cr

Latitude: 42.141227 Longitude: -88.506076

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

Refer to Figure 4-1.1 and 4-1.2 in the Final PSI Report and borings 2895-1-01 (Sta 5+00 to 8+00, Right); 2895-1-04 (Sta 11+25 to 15+00, Right); 2895-3-01 (Sta 5+00 to 6+75, Left); 2895-4-01 (Sta 105+00 to 107+00, Left); 2895-4-03 (Sta 110+50 to 113+00, Right), 2895-4-04 (Sta 113+00 to 114+00, Right); and 2895-8-02 (Sta 109+75 to 110+25, 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 #17-6903. 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

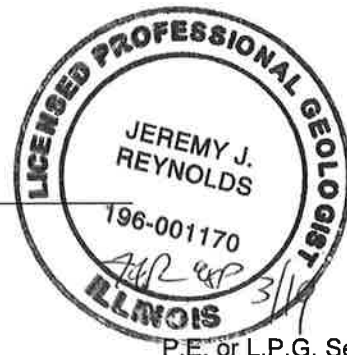
Jeremy J. Reynolds, P.G.

Printed Name:



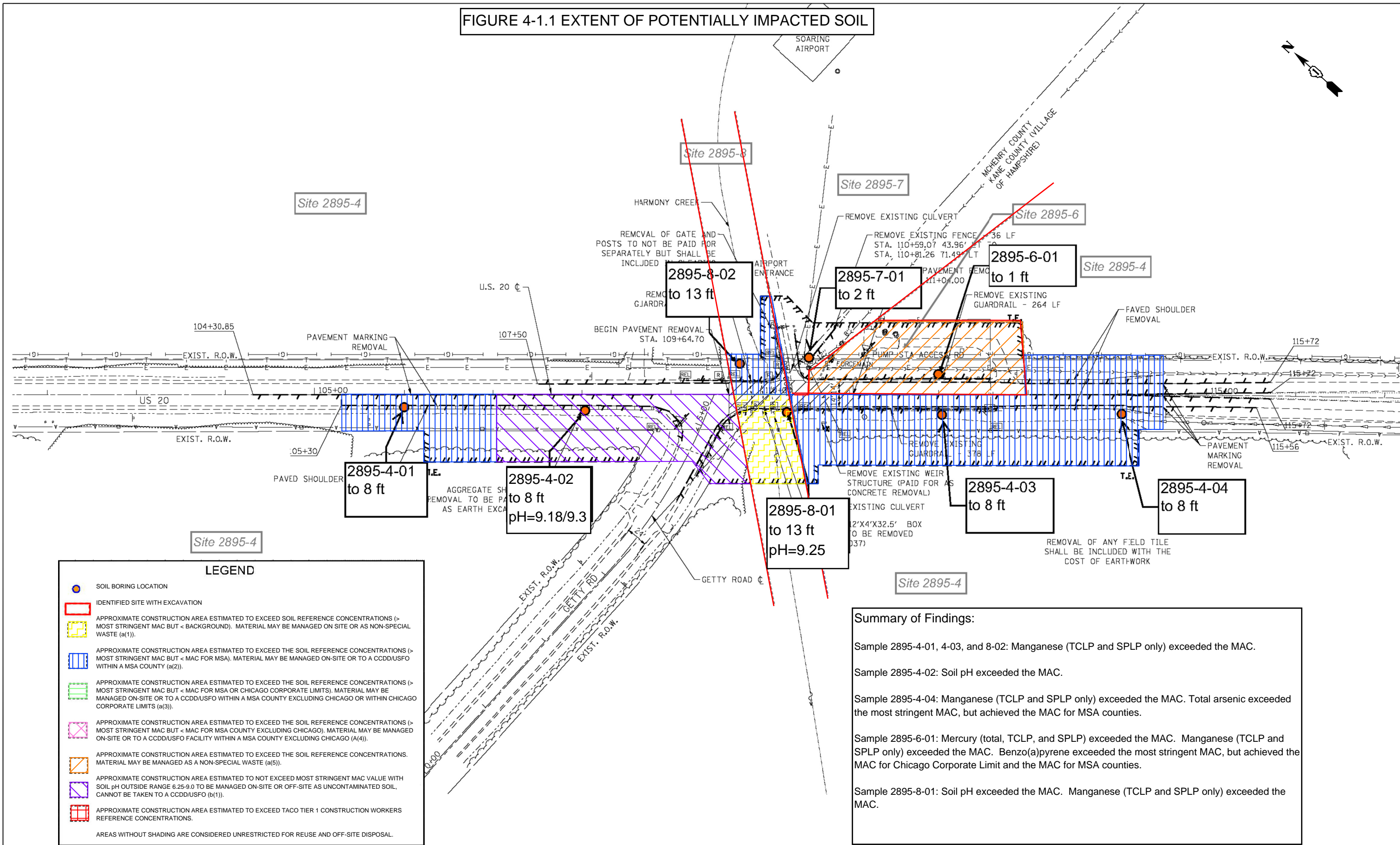
Licensed Professional Engineer or
Licensed Professional Geologist Signature:

2/8/17
Date:



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

FIGURE 4-1.1 EXTENT OF POTENTIALLY IMPACTED SOIL



LEGEND

- SOIL BORING LOCATION
 - IDENTIFIED SITE WITH EXCAVATION
 - 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 6.25-9.0 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.

Summary of Findings:

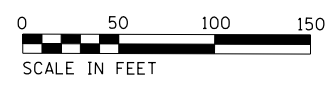
Sample 2895-4-01, 4-03, and 8-02: Manganese (TCLP and SPLP only) exceeded the MAC.

Sample 2895-4-02: Soil pH exceeded the MAC.

Sample 2895-4-04: Manganese (TCLP and SPLP only) exceeded the MAC. Total arsenic exceeded the most stringent MAC, but achieved the MAC for MSA counties.

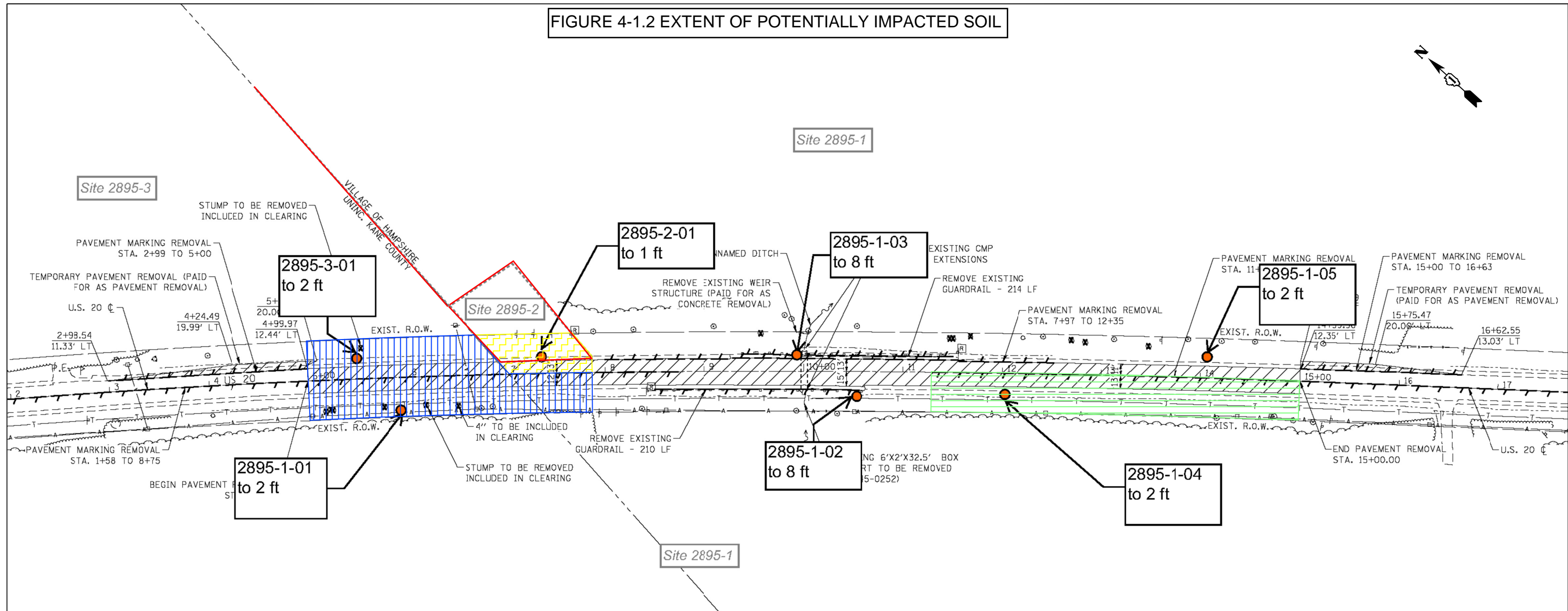
Sample 2895-6-01: Mercury (total, TCLP, and SPLP) exceeded the MAC. Manganese (TCLP and SPLP only) exceeded the MAC. Benzo(a)pyrene exceeded the most stringent MAC, but achieved the MAC for Chicago Corporate Limit and the MAC for MSA counties.

Sample 2895-8-01: Soil pH exceeded the MAC. Manganese (TCLP and SPLP only) exceeded the MAC.



FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US ROUTE 20 OVER HARMONY CREEK (AT GETTY ROAD) REMOVAL PLAN	F.A.U. RTE. 525/345	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED -		SCALE: 1" = 100'	SHEET NO. 2 OF 2 SHEETS			KANE/MCHENRY	2	2
		CHECKED -	REVISED -		STA.	TO STA.					
		DATE -	REVISED -		ILLINOIS CONTRACT NO.						

FIGURE 4-1.2 EXTENT OF POTENTIALLY IMPACTED SOIL



LEGEND

- SOIL BORING LOCATION
- IDENTIFIED SITE WITH EXCAVATION
- 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.

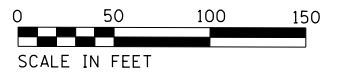
AREAS WITHOUT SHADING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.

Summary of Findings:

Sample 2895-1-01 and 2895-3-01: Manganese (TCLP and SPLP only) exceeded the MAC.

Sample 2895-1-04: Manganese (TCLP and SPLP only) exceeded the MAC. Benzo(a)pyrene exceeded the most stringent MAC, but achieved the MAC for Chicago Corporate Limit and the MAC for MSA counties.

Samples 2895-2-01: Lead (total, TCLP, and SPLP) exceeded the MAC. Benzo(a)pyrene exceeded the most stringent MAC, but achieved the MAC for Chicago Corporate Limit and the MAC for MSA counties.



FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US ROUTE 20 OVER AN UNNAMED DITCH (AKA EAKIN CREEK WEST) REMOVAL PLAN	F.A.U. RTE. 525/345	SECTION	COUNTY KANE/MCHENRY	TOTAL SHEETS 2	SHEET NO. 1
		DRAWN -	REVISED -		SCALE: 1" = 100'	SHEET NO. 1 OF 2 SHEETS				
		CHECKED -	REVISED -		STA. TO STA.					
		DATE -	REVISED -		ILLINOIS					

LPC-663 Results Table for Site 2895-1-01, 1-04, 3-01, 4-01, 4-03, 4-04, and 8-02
Soils for Reuse or Disposal Including CCDD/USFO Facilities in MSA Counties including Chicago

Boring ID	2895-1-01	2895-1-04	2895-1-04 (Dup-1)	2895-3-01	2895-4-01	2895-4-01	2895-4-03	2895-4-03	2895-4-03 (Dup-3)	2895-4-04	2895-4-04	2895-8-02	2895-8-02	2895-8-02	2895-8-02	Soil Reference Concentrations ^{4/}	Soil Remediation Objective for Construction Workers ^{5/}	
Sample Depth, ft	0-2	0-2	0-2	0-2	0-4	4-8	0-4	4-8	4-8	0-4	4-8	0-4	4-8	8-12	12-13			
Sample Date	12/11/2017	12/11/2017	12/11/2017	12/11/2017	12/11/2017	12/11/2017	12/11/2017	12/11/2017	12/11/2017	12/11/2017	12/11/2017	12/11/2017	12/11/2017	12/11/2017	12/11/2017			
Excavation Area(s) (ISGS Site No.(s))	2895-1	2895-1	2895-1	2895-3	2895-4	2895-4	2895-4	2895-4	2895-4	2895-4	2895-4	2895-8	2895-8	2895-8	2895-8			
Parameter																		
Laboratory soil pH (s.u.)	8.48	8.12	8.19	8.35	8.04	8.6	8.38	8.79	8.64	8.4	8.77	7.89	7.94	8.94	8.72	<6.25, >9.0	---	
VOCs (mg/kg)	NO EXCEEDANCES																	
SVOCs (mg/kg)																		
Benzo(a)pyrene	<0.09	0.345	0.099	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.18	<0.09	<0.09	<0.09	<0.54	0.09 / 1.3 / 2.1	17	
Total Metals, mg/kg																		
Antimony	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5	82	
Arsenic	3.2	2.5	3	4.6	3.7	<1.0	3.4	<1.0	2.7	12.7	1.8	3.3	<1.0	<1.0	1.1	11.3 / 13	61	
Barium	28	75.4	89.8	78.5	64.9	10.2	47	10.2	27.9	43.8	24.2	49.8	38.6	6.3	10.2	1,500	14,000	
Beryllium	<0.5	<0.5	<0.5	0.8	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	22	410
Cadmium	5.6	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.2	200
Calcium	53400	26700	40600	2400	4320	63700	21400	106000	45400	15600	86100	6400	9530	63900	104000	---	---	
Chromium	12	35.3	27.4	24.2	20.9	6.7	10.4	6.6	9.6	12.5	10.3	12	15.8	4.5	7.8	21	690	
Cobalt	4.7	4.7	6.4	6.3	5.7	3.8	3.7	2.7	3.2	3.9	2.4	5	3.3	1.5	2	20	12,000	
Copper	137	25.9	22.5	21.1	22.4	7.7	10.8	5.2	8.1	10.2	10.1	20.9	13.8	5.7	6.8	2,900	8,200	
Iron	13700	14200	16500	22100	19400	6430	11100	9120	9630	17100	7110	14900	10000	5040	7670	15,000 / 15,900	---	
Lead	7.2	50.4	79.1	9.5	10.7	2.2	7.8	2.4	4.7	8.6	16.7	6.4	6.7	3	2.2	107	700	
Magnesium	32100	14600	24500	3970	3550	34300	11700	56100	28500	9800	52900	3900	6180	34300	61200	325,000	730,000	
Manganese	270	264	406	259	88.4	111	317	199	109	219	206	231	65.2	127	134	630 / 636	4,100	
Mercury	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.17	<0.05	<0.05	0.89	0.1	
Nickel	19.1	13	14	23.7	17.4	6.9	8	6.3	7.9	10	7.8	12.7	10.2	4.9	6.5	100	4,100	
Potassium	1200	1550	1410	1270	805	713	616	692	558	613	644	626	716	698	1000	---	---	
Selenium	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.3	1,000	
Silver	0.4	0.5	0.5	0.8	0.7	0.3	0.4	0.3	0.4	0.6	0.2	0.6	0.4	0.2	0.2	4.4	1,000	
Sodium	740	331	601	1180	588	215	1280	509	784	2340	1260	2480	2370	242	605	---	---	
Thallium	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.6	160	
Vanadium	16.6	22.4	25.1	30.3	53.3	16.5	23.8	14.6	20.7	36.1	18.4	43	30.8	10.2	15.6	550	1,400	
Zinc	356	109	90	44.1	40	14.7	23.4	12	21.2	26.6	25.6	26.3	45.9	19.3	14.9	5,100	61,000	
TCLP Metals, mg/L																		
Arsenic	<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	0.05	
Barium	<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	2	
Beryllium	<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	0.004	
Cadmium	<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	
Chromium	<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	0.1	
Cobalt	<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	1	
Copper	<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	0.65	
Iron	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	3	<0.1	<0.1	<0.1	<0.1	<0.1	2.1	0.3	<0.1	<0.1	5	
Lead	<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	0.0075	
Manganese	0.3	0.2	0.3	0.7	0.2	<0.1	8.8	1.1	1.8	0.5	4.7	7.7	0.8	0.8	0.8	0.9	0.15	
Mercury	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.002	
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	
Selenium	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.012	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.05	
Silver	<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	0.05	
Zinc	0.7	<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	5	
SPLP Metals, mg/L																		
Arsenic	0.018	<0.010	<0.010	0.032	<0.010	<0.010	0.012	<0.010	<0.010	0.026	0.027	<0.010	<0.010	<0.010	<0.010	<0.010	0.05	
Barium	<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	2	
Beryllium	<0.004	<0.004	<0.004	0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.004	
Cadmium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	
Chromium	0.059	0.02	0.037	0.154	0.105	0.022	0.039	0.063	0.03	0.046	0.145	0.053	0.143	0.023	0.023	0.023	0.1	
Cobalt	<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	1	
Copper	0.098	0.011	0.023	0.149	0.058	0.013	0.028	0.036	0.037	0.043	0.095	0.046	0.103	0.016	0.018	0.018	0.65	
Iron	51	9.4	26.4	136	76	15.3	31.2	45.2	24.8	49.2	111	41.4	89	9.3	13.3	5		
Lead	0.019	0.022	0.048	0.045	0.026	0.006	0.015	0.017	0.015	0.02	0.158	0.024	0.037	0.005	0.005	0.0075		
Manganese	0.3	<0.1	0.2	0.7	0.2	<0.1	0.3	0.3	0.3	0.7	2	0.7	0.3	<0.1	<0.1	0.15		
Mercury	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.002	
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	
Selenium	<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	0.05	
Silver	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.05	
Zinc	0.4	<0.1	0.1	0.3	0.3	<0.1	<0.1	<0.1	<0.1	0.1	0.3	<0.1	0.4	<0.1	<0.1	<0.1	5	

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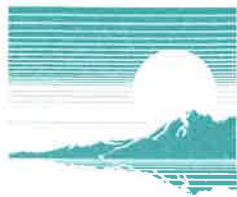
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-1-01 (0-2)
Sample No: 17-6903-001

Date Collected: 12/11/17
Time Collected: 10:00
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 12/13/17				
Total Solids	87.73		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 12/14/17				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 12/11/17

Project ID: IDOT WO#6 Hampshire #81.0220509.12

Time Collected: 10:00

Sample ID: 2895-1-01 (0-2)

Date Received: 12/12/17

Sample No: 17-6903-001

Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 12/14/17				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 12/14/17		Preparation Date: 12/13/17		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Dutyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO#6 Hampshire #81.0220509.12

Sample ID: 2895-1-01 (0-2)

Sample No: 17-6903-001

Date Collected: 12/11/17

Time Collected: 10:00

Date Received: 12/12/17

Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Analysis Date: 12/14/17				
	Method: 8270C		Preparation Method 3540C	
			Preparation Date: 12/13/17	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 12/11/17

Project ID: IDOT WO#6 Hampshire #81.0220509.12

Time Collected: 10:00

Sample ID: 2895-1-01 (0-2)

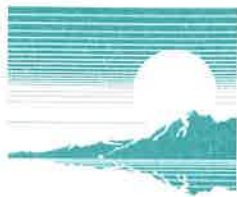
Date Received: 12/12/17

Sample No: 17-6903-001

Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 12/14/17		Preparation Date: 12/13/17		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals				
Method: 6010C		Preparation Method 3050B		
Analysis Date: 12/15/17		Preparation Date: 12/13/17		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.2	1.0	mg/kg	
Barium	28.0	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	5.6	0.5	mg/kg	
Calcium	53,400	50	mg/kg	
Chromium	12.0	0.5	mg/kg	
Cobalt	4.7	0.5	mg/kg	
Copper	137	0.5	mg/kg	
Iron	13,700	5.0	mg/kg	
Lead	7.2	0.5	mg/kg	
Magnesium	32,100	50	mg/kg	
Manganese	270	0.5	mg/kg	
Nickel	19.1	0.5	mg/kg	
Potassium	1,200	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	740	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	16.6	1.0	mg/kg	
Zinc	356	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 12/19/17				
Mercury	< 0.05	0.05	mg/kg	
TCLP Metals Method 1311				
Method: 6010C		Preparation Method 3010A		
Analysis Date: 12/19/17		Preparation Date: 12/18/17		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	



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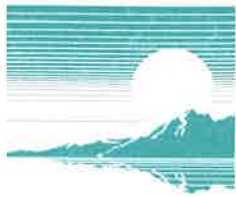
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-1-01 (0-2)
Sample No: 17-6903-001

Date Collected: 12/11/17
Time Collected: 10:00
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 12/19/17		Preparation Date: 12/18/17		
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	0.3	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	0.7	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 12/20/17				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction Method: 1311				
Analysis Date: 12/18/17				
TCLP Extraction	Complete			
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 12/19/17		Preparation Date: 12/18/17		
Arsenic	0.018	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.059	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.098	0.005	mg/L	
Iron	51.0	0.1	mg/L	
Lead	0.019	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Potassium	5.0	1.0	mg/L	
Zinc	0.4	0.1	mg/L	
SPLP Mercury Method 1312 Method: 7470A				
Analysis Date: 12/15/17				
Mercury	< 0.0005	0.0005	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 12/11/17

Project ID: IDOT WO#6 Hampshire #81.0220509.12

Time Collected: 10:00

Sample ID: 2895-1-01 (0-2)

Date Received: 12/12/17

Sample No: 17-6903-001

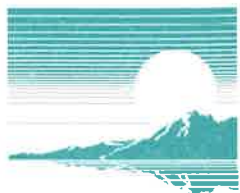
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction	Method: 1312			
Analysis Date: 12/14/17				
SPLP Metals Extraction	Complete			

pH @ 25°C, 1:2	Method: 9045D 2004			
Analysis Date: 12/14/17 10:55				
pH @ 25°C, 1:2	8.48		Units	

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	96.3	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	94.1	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	78.1	45	112
8270C	2-Fluorophenol (Surr)	%R:	55.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	85.1	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	70.6	35	105
8270C	Phenol-d5 (surr)	%R:	62.9	50	100



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-1-04 (0-2)
Sample No: 17-6903-004

Date Collected: 12/11/17
Time Collected: 10:20
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 12/13/17				
Total Solids	69.22		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 12/14/17				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-1-04 (0-2)
Sample No: 17-6903-004

Date Collected: 12/11/17
Time Collected: 10:20
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 12/14/17				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 12/18/17				
Preparation Date: 12/13/17				
Acenaphthene	< 660	330	ug/kg	
Acenaphthylene	< 660	330	ug/kg	
Anthracene	< 660	330	ug/kg	
Benzidine	< 660	330	ug/kg	
Benzo(a)anthracene	< 660	330	ug/kg	
Benzo(a)pyrene	345	90	ug/kg	
Benzo(b)fluoranthene	< 660	330	ug/kg	
Benzo(k)fluoranthene	< 660	330	ug/kg	
Benzo(ghi)perylene	< 660	330	ug/kg	
Benzoic acid	< 660	330	ug/kg	
Benzyl alcohol	< 660	330	ug/kg	
bis(2-Chloroethoxy)methane	< 660	330	ug/kg	
bis(2-Chloroethyl)ether	< 660	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 660	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 660	330	ug/kg	
4-Bromophenyl phenyl ether	< 660	330	ug/kg	
Butyl benzyl phthalate	< 660	330	ug/kg	
Carbazole	< 660	330	ug/kg	
4-Chloroaniline	< 660	330	ug/kg	
4-Chloro-3-methylphenol	< 660	330	ug/kg	
2-Chloronaphthalene	< 660	330	ug/kg	
2-Chlorophenol	< 660	330	ug/kg	
4-Chlorophenyl phenyl ether	< 660	330	ug/kg	
Chrysene	< 660	330	ug/kg	
Dibenzo(a,h)anthracene	< 180	90	ug/kg	
Dibenzofuran	< 660	330	ug/kg	
1,2-Dichlorobenzene	< 660	330	ug/kg	
1,3-Dichlorobenzene	< 660	330	ug/kg	
1,4-Dichlorobenzene	< 660	330	ug/kg	
3,3'-Dichlorobenzidine	< 1,320	660	ug/kg	
2,4-Dichlorophenol	< 660	330	ug/kg	



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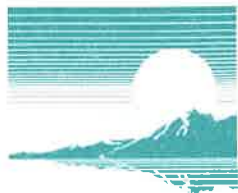
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-1-04 (0-2)
Sample No: 17-6903-004

Date Collected: 12/11/17
Time Collected: 10:20
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Analysis Date: 12/18/17				
Diethyl phthalate	< 660	330	ug/kg	
2,4-Dimethylphenol	< 660	330	ug/kg	
Dimethyl phthalate	< 660	330	ug/kg	
Di-n-butyl phthalate	< 660	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 3,200	1600	ug/kg	
2,4-Dinitrophenol	< 3,200	1600	ug/kg	
2,4-Dinitrotoluene	< 500	250	ug/kg	
2,6-Dinitrotoluene	< 520	260	ug/kg	
Di-n-octylphthalate	< 660	330	ug/kg	
Fluoranthene	< 660	330	ug/kg	
Fluorene	< 660	330	ug/kg	
Hexachlorobenzene	< 660	330	ug/kg	
Hexachlorobutadiene	< 660	330	ug/kg	
Hexachlorocyclopentadiene	< 660	330	ug/kg	
Hexachloroethane	< 660	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 660	330	ug/kg	
Isophorone	< 660	330	ug/kg	
2-Methylnaphthalene	< 660	330	ug/kg	
2-Methylphenol	< 660	330	ug/kg	
3 & 4-Methylphenol	< 660	330	ug/kg	
Naphthalene	< 660	330	ug/kg	
2-Nitroaniline	< 3,200	1600	ug/kg	
3-Nitroaniline	< 3,200	1600	ug/kg	
4-Nitroaniline	< 3,200	1600	ug/kg	
Nitrobenzene	< 520	260	ug/kg	
2-Nitrophenol	< 3,200	1600	ug/kg	
4-Nitrophenol	< 3,200	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 180	90	ug/kg	
n-Nitrosodimethylamine	< 660	330	ug/kg	
n-Nitrosodiphenylamine	< 660	330	ug/kg	
Pentachlorophenol	< 660	330	ug/kg	
Phenanthrene	< 660	330	ug/kg	
Phenol	< 660	330	ug/kg	
Pyrene	< 660	330	ug/kg	
Pyridine	< 660	330	ug/kg	
1,2,4-Trichlorobenzene	< 660	330	ug/kg	



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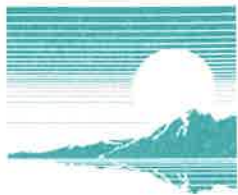
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-1-04 (0-2)
Sample No: 17-6903-004

Date Collected: 12/11/17
Time Collected: 10:20
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 12/18/17		Preparation Date: 12/13/17		
2,4,5-Trichlorophenol	< 660	330	ug/kg	
2,4,6-Trichlorophenol	< 660	330	ug/kg	
Total Metals				
Method: 6010C		Preparation Method 3050B		
Analysis Date: 12/15/17		Preparation Date: 12/13/17		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.5	1.0	mg/kg	
Barium	75.4	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	26,700	50	mg/kg	
Chromium	35.3	0.5	mg/kg	
Cobalt	4.7	0.5	mg/kg	
Copper	25.9	0.5	mg/kg	
Iron	14,200	5.0	mg/kg	
Lead	50.4	0.5	mg/kg	
Magnesium	14,600	50	mg/kg	
Manganese	264	0.5	mg/kg	
Nickel	13.0	0.5	mg/kg	
Potassium	1,550	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	331	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	22.4	1.0	mg/kg	
Zinc	109	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 12/19/17				
Mercury	< 0.05	0.05	mg/kg	
TCLP Metals Method 1311				
Method: 6010C		Preparation Method 3010A		
Analysis Date: 12/19/17		Preparation Date: 12/18/17		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	



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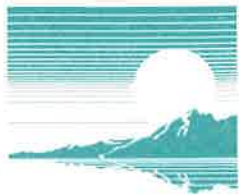
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-1-04 (0-2)
Sample No: 17-6903-004

Date Collected: 12/11/17
Time Collected: 10:20
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 12/19/17		Preparation Date: 12/18/17		
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: 12/20/17				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction		Method: 1311		
Analysis Date: 12/18/17				
TCLP Extraction	Complete			
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 12/19/17		Preparation Date: 12/18/17		
Arsenic	< 0.010	0.010	mg/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	0.011	0.005	mg/L	
Iron	9.4	0.1	mg/L	
Lead	0.022	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	
Potassium	2.4	1.0	mg/L	
Zinc	< 0.1	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 12/15/17				
Mercury	< 0.0005	0.0005	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-1-04 (0-2)
Sample No: 17-6903-004

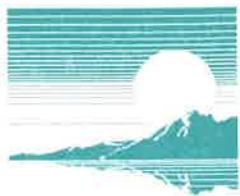
Date Collected: 12/11/17
Time Collected: 10:20
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction	Method: 1312			
Analysis Date: 12/14/17				
SPLP Metals Extraction	Complete			

pH @ 25°C, 1:2	Method: 9045D 2004			
Analysis Date: 12/14/17 10:55				
pH @ 25°C, 1:2	8.12		Units	

<i>Sample QC Summary:</i>		<i>Surrogate Recovery</i>		<i>%R Limits</i>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.6	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	105.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	92.8	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	89.7	45	112
8270C	2-Fluorophenol (Surr)	%R:	63.2	41	84
8270C	d14-Terphenyl (Surr)	%R:	81.4	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	75.4	35	105
8270C	Phenol-d5 (surr)	%R:	64.6	50	100



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-3-01 (0-2)
Sample No: 17-6903-009

Date Collected: 12/11/17
Time Collected: 10:50
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 12/13/17				
Total Solids	79.08		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 12/14/17				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-3-01 (0-2)
Sample No: 17-6903-009

Date Collected: 12/11/17
Time Collected: 10:50
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 12/14/17				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 12/14/17				
Preparation Date: 12/13/17				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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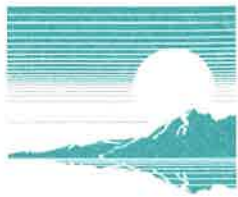
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-3-01 (0-2)
Sample No: 17-6903-009

Date Collected: 12/11/17
Time Collected: 10:50
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 12/14/17		Preparation Date: 12/13/17		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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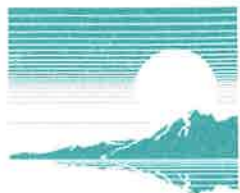
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-3-01 (0-2)
Sample No: 17-6903-009

Date Collected: 12/11/17
Time Collected: 10:50
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 12/14/17		Preparation Date: 12/13/17		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals				
Method: 6010C		Preparation Method 3050B		
Analysis Date: 12/18/17		Preparation Date: 12/13/17		
Antimony	< 2.0	1.0	mg/kg	
Arsenic	4.6	1.0	mg/kg	
Barium	78.5	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 1.0	0.5	mg/kg	
Calcium	2,400	50	mg/kg	
Chromium	24.2	0.5	mg/kg	
Cobalt	6.3	0.5	mg/kg	
Copper	21.1	0.5	mg/kg	
Iron	22,100	5.0	mg/kg	
Lead	9.5	0.5	mg/kg	
Magnesium	3,970	50	mg/kg	
Manganese	259	0.5	mg/kg	
Nickel	23.7	0.5	mg/kg	
Potassium	1,270	50	mg/kg	
Selenium	< 2.0	1.0	mg/kg	
Silver	0.8	0.2	mg/kg	
Sodium	1,180	50	mg/kg	
Thallium	< 2.0	1.0	mg/kg	
Vanadium	30.3	1.0	mg/kg	
Zinc	44.1	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 12/19/17				
Mercury	< 0.05	0.05	mg/kg	
TCLP Metals Method 1311				
Method: 6010C		Preparation Method 3010A		
Analysis Date: 12/19/17		Preparation Date: 12/18/17		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-3-01 (0-2)
Sample No: 17-6903-009

Date Collected: 12/11/17
Time Collected: 10:50
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 12/19/17				Preparation Date: 12/18/17
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: 12/20/17				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction		Method: 1311		
Analysis Date: 12/18/17				
TCLP Extraction	Complete			
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 12/19/17				Preparation Date: 12/18/17
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	0.154	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.149	0.005	mg/L	
Iron	136	0.1	mg/L	
Lead	0.045	0.005	mg/L	
Manganese	0.7	0.1	mg/L	
Nickel	0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Potassium	10.6	1.0	mg/L	
Zinc	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 12/15/17				
Mercury	< 0.0005	0.0005	mg/L	



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Analytical Report

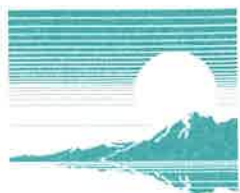
Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-3-01 (0-2)
Sample No: 17-6903-009

Date Collected: 12/11/17
Time Collected: 10:50
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction	Method: 1312			
Analysis Date: 12/14/17				
SPLP Metals Extraction	Complete			
pH @ 25°C, 1:2	Method: 9045D 2004			
Analysis Date: 12/14/17 10:55				
pH @ 25°C, 1:2	8.35		Units	

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.4	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R:	102	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R:	97.2	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R:	91.5	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R:	73	45 - 112	
8270C	2-Fluorophenol (Surr)	%R:	58.5	41 - 84	
8270C	d14-Terphenyl (Surr)	%R:	85.2	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R:	67.6	35 - 105	
8270C	Phenol-d5 (surr)	%R:	61.8	50 - 100	



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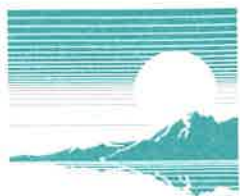
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-4-01 (0-4)
Sample No: 17-6903-016

Date Collected: 12/11/17
Time Collected: 12:30
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 12/13/17				
Total Solids	76.18		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 12/14/17				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ng/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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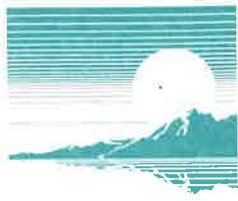
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-4-01 (0-4)
Sample No: 17-6903-016

Date Collected: 12/11/17
Time Collected: 12:30
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 12/14/17				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 12/15/17				
Preparation Date: 12/14/17				
Accnaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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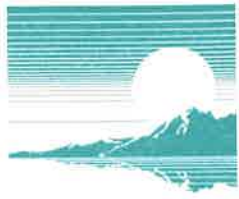
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-4-01 (0-4)
Sample No: 17-6903-016

Date Collected: 12/11/17
Time Collected: 12:30
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Analysis Date: 12/15/17				
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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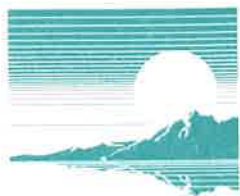
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-4-01 (0-4)
Sample No: 17-6903-016

Date Collected: 12/11/17
Time Collected: 12:30
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 12/15/17		Preparation Date: 12/14/17		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals				
Method: 6010C		Preparation Method 3050B		
Analysis Date: 12/15/17		Preparation Date: 12/13/17		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.7	1.0	mg/kg	
Barium	64.9	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	4,320	50	mg/kg	
Chromium	20.9	0.5	mg/kg	
Cobalt	5.7	0.5	mg/kg	
Copper	22.4	0.5	mg/kg	
Iron	19,400	5.0	mg/kg	
Lead	10.7	0.5	mg/kg	
Magnesium	3,550	50	mg/kg	
Manganese	88.4	0.5	mg/kg	
Nickel	17.4	0.5	mg/kg	
Potassium	805	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.7	0.2	mg/kg	
Sodium	588	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	53.3	1.0	mg/kg	
Zinc	40.0	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 12/21/17				
Mercury	< 0.05	0.05	mg/kg	
TCLP Metals Method 1311				
Method: 6010C		Preparation Method 3010A		
Analysis Date: 12/19/17		Preparation Date: 12/18/17		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-4-01 (0-4)
Sample No: 17-6903-016

Date Collected: 12/11/17
Time Collected: 12:30
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 12/19/17				Preparation Date: 12/18/17
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: 12/20/17				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction		Method: 1311		
Analysis Date: 12/18/17				
TCLP Extraction	Complete			
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 12/20/17				Preparation Date: 12/18/17
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.105	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.058	0.005	mg/L	
Iron	76.0	0.1	mg/L	
Lead	0.026	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	
Potassium	7.7	1.0	mg/L	
Zinc	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 12/19/17				
Mercury	< 0.0005	0.0005	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-4-01 (0-4)
Sample No: 17-6903-016

Date Collected: 12/11/17
Time Collected: 12:30
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction	Method: 1312			
Analysis Date: 12/18/17				
SPLP Metals Extraction	Complete			

pH @ 25°C, 1:2	Method: 9045D 2004			
Analysis Date: 12/14/17 10:55				
pH @ 25°C, 1:2	8.04		Units	

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.9	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	101.9	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	81.6	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	68.8	45	112
8270C	2-Fluorophenol (Surr)	%R:	55.3	41	84
8270C	d14-Terphenyl (Surr)	%R:	77.2	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	65.4	35	105
8270C	Phenol-d5 (surr)	%R:	60.5	50	100



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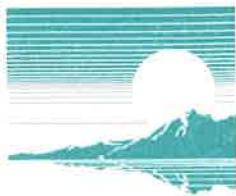
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-4-01 (4-8)
Sample No: 17-6903-017

Date Collected: 12/11/17
Time Collected: 12:35
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 12/13/17				
Total Solids	87.47		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 12/14/17				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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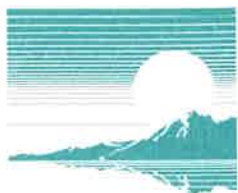
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-4-01 (4-8)
Sample No: 17-6903-017

Date Collected: 12/11/17
Time Collected: 12:35
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 12/14/17				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 12/15/17				
Preparation Date: 12/14/17				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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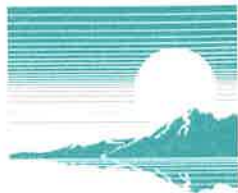
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-4-01 (4-8)
Sample No: 17-6903-017

Date Collected: 12/11/17
Time Collected: 12:35
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 12/15/17		Preparation Date: 12/14/17		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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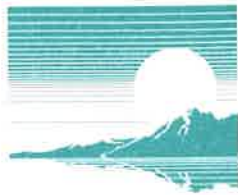
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-4-01 (4-8)
Sample No: 17-6903-017

Date Collected: 12/11/17
Time Collected: 12:35
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 12/15/17		Preparation Date: 12/14/17		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals				
Method: 6010C		Preparation Method 3050B		
Analysis Date: 12/15/17		Preparation Date: 12/13/17		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	< 1.0	1.0	mg/kg	
Barium	10.2	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	63,700	50	mg/kg	
Chromium	6.7	0.5	mg/kg	
Cobalt	3.8	0.5	mg/kg	
Copper	7.7	0.5	mg/kg	
Iron	6,430	5.0	mg/kg	
Lead	2.2	0.5	mg/kg	
Magnesium	34,300	50	mg/kg	
Manganese	111	0.5	mg/kg	
Nickel	6.9	0.5	mg/kg	
Potassium	713	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	215	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	16.5	1.0	mg/kg	
Zinc	14.7	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 12/21/17				
Mercury	< 0.05	0.05	mg/kg	
TCLP Metals Method 1311				
Method: 6010C		Preparation Method 3010A		
Analysis Date: 12/19/17		Preparation Date: 12/18/17		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	



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Sample ID: 2895-4-01 (4-8)
Sample No: 17-6903-017

Date Collected: 12/11/17
Time Collected: 12:35
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 12/19/17				Preparation Date: 12/18/17
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: 12/20/17				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction		Method: 1311		
Analysis Date: 12/18/17				
TCLP Extraction	Complete			
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 12/20/17				Preparation Date: 12/18/17
Arsenic	< 0.010	0.010	mg/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	0.013	0.005	mg/L	
Iron	15.3	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	
Potassium	2.4	1.0	mg/L	
Zinc	< 0.1	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 12/19/17				
Mercury	< 0.0005	0.0005	mg/L	



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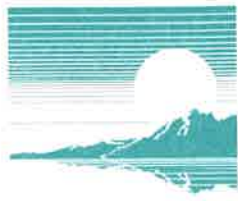
Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-4-01 (4-8)
Sample No: 17-6903-017

Date Collected: 12/11/17
Time Collected: 12:35
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction Analysis Date: 12/18/17	Method: 1312			
SPLP Metals Extraction	Complete			
pH @ 25°C, 1:2 Analysis Date: 12/14/17 10:55	Method: 9045D 2004			
pH @ 25°C, 1:2	8.60		Units	

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.6	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	101	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	98.8	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	83.6	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	72.8	45	112
8270C	2-Fluorophenol (Surr)	%R:	55.8	41	84
8270C	d14-Terphenyl (Surr)	%R:	75.4	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	65.3	35	105
8270C	Phenol-d5 (surr)	%R:	58.9	50	100



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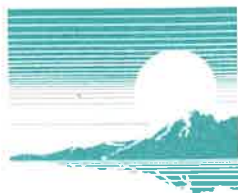
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-4-03 (0-4)
Sample No: 17-6903-023

Date Collected: 12/11/17
Time Collected: 13:35
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 12/13/17				
Total Solids	88.35		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 12/15/17				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butyl ether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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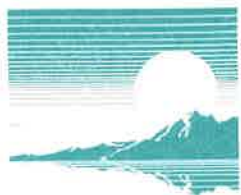
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-4-03 (0-4)
Sample No: 17-6903-023

Date Collected: 12/11/17
Time Collected: 13:35
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 12/15/17				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 12/15/17				
Preparation Date: 12/14/17				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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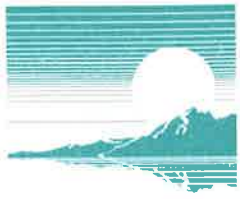
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-4-03 (0-4)
Sample No: 17-6903-023

Date Collected: 12/11/17
Time Collected: 13:35
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Analysis Date: 12/15/17				
	Method: 8270C		Preparation Method 3540C	
			Preparation Date: 12/14/17	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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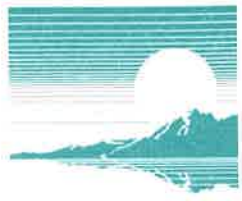
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-4-03 (0-4)
Sample No: 17-6903-023

Date Collected: 12/11/17
Time Collected: 13:35
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 12/15/17		Preparation Date: 12/14/17		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals				
Method: 6010C		Preparation Method 3050B		
Analysis Date: 12/15/17		Preparation Date: 12/15/17		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.4	1.0	mg/kg	
Barium	47.0	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	21,400	50	mg/kg	
Chromium	10.4	0.5	mg/kg	
Cobalt	3.7	0.5	mg/kg	
Copper	10.8	0.5	mg/kg	
Iron	11,100	5.0	mg/kg	
Lead	7.8	0.5	mg/kg	
Magnesium	11,700	50	mg/kg	
Manganese	317	0.5	mg/kg	
Nickel	8.0	0.5	mg/kg	
Potassium	616	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	1,280	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	23.8	1.0	mg/kg	
Zinc	23.4	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 12/21/17				
Mercury	< 0.05	0.05	mg/kg	
TCLP Metals Method 1311				
Method: 6010C		Preparation Method 3010A		
Analysis Date: 12/20/17		Preparation Date: 12/19/17		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	



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Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311				
Method: 6010C		Preparation Method 3010A		
Analysis Date: 12/20/17		Preparation Date: 12/19/17		
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	3.0	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	8.8	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				
Method: 7470A				
Analysis Date: 12/20/17				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction				
Method: 1311				
Analysis Date: 12/18/17				
TCLP Extraction	Complete			
SPLP Metals Method 1312				
Method: 6010C		Preparation Method 3010A		
Analysis Date: 12/20/17		Preparation Date: 12/18/17		
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	0.039	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.028	0.005	mg/L	
Iron	31.2	0.1	mg/L	
Lead	0.015	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	
Potassium	2.7	1.0	mg/L	
Zinc	< 0.1	0.1	mg/L	
SPLP Mercury Method 1312				
Method: 7470A				
Analysis Date: 12/19/17				
Mercury	< 0.0005	0.0005	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-4-03 (0-4)
Sample No: 17-6903-023

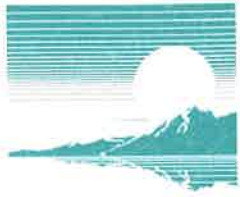
Date Collected: 12/11/17
Time Collected: 13:35
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction	Method: 1312			
Analysis Date: 12/18/17				
SPLP Metals Extraction	Complete			

pH @ 25°C, 1:2	Method: 9045D 2004			
Analysis Date: 12/14/17 10:55				
pH @ 25°C, 1:2	8.38		Units	

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.4	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R:	101.7	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R:	101.4	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R:	81.9	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R:	72.8	45 - 112	
8270C	2-Fluorophenol (Surr)	%R:	52.1	41 - 84	
8270C	d14-Terphenyl (Surr)	%R:	74.5	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R:	58.1	35 - 105	
8270C	Phenol-d5 (surr)	%R:	56.8	50 - 100	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-4-03 (4-8)
Sample No: 17-6903-024

Date Collected: 12/11/17
Time Collected: 13:40
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total	Method: 2540B			
Analysis Date: 12/13/17				
Total Solids	88.06		%	
Volatile Organic Compounds	Method: 5035A/8260B			
Analysis Date: 12/15/17				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	5.7	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-4-03 (4-8)
Sample No: 17-6903-024

Date Collected: 12/11/17
Time Collected: 13:40
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 12/15/17				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 12/15/17		Preparation Date: 12/14/17		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-4-03 (4-8)
Sample No: 17-6903-024

Date Collected: 12/11/17
Time Collected: 13:40
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Analysis Date: 12/15/17				
	Method: 8270C			
		Preparation Method 3540C		
		Preparation Date: 12/14/17		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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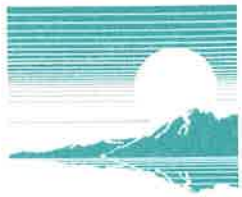
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-4-03 (4-8)
Sample No: 17-6903-024

Date Collected: 12/11/17
Time Collected: 13:40
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 12/15/17		Preparation Date: 12/14/17		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals				
Method: 6010C		Preparation Method 3050B		
Analysis Date: 12/15/17		Preparation Date: 12/15/17		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	< 1.0	1.0	mg/kg	
Barium	10.2	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	106,000	50	mg/kg	
Chromium	6.6	0.5	mg/kg	
Cobalt	2.7	0.5	mg/kg	
Copper	5.2	0.5	mg/kg	
Iron	9,120	5.0	mg/kg	
Lead	2.4	0.5	mg/kg	
Magnesium	56,100	50	mg/kg	
Manganese	199	0.5	mg/kg	
Nickel	6.3	0.5	mg/kg	
Potassium	692	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	509	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	14.6	1.0	mg/kg	
Zinc	12.0	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 12/21/17				
Mercury	< 0.05	0.05	mg/kg	
TCLP Metals Method 1311				
Method: 6010C		Preparation Method 3010A		
Analysis Date: 12/20/17		Preparation Date: 12/19/17		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	



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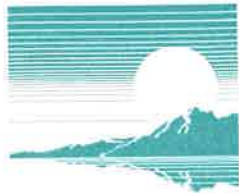
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-4-03 (4-8)
Sample No: 17-6903-024

Date Collected: 12/11/17
Time Collected: 13:40
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 12/20/17 Preparation Date: 12/19/17				
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 12/20/17				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction Method: 1311				
Analysis Date: 12/18/17				
TCLP Extraction	Complete			
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 12/20/17 Preparation Date: 12/18/17				
Arsenic	< 0.010	0.010	mg/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	0.036	0.005	mg/L	
Iron	45.2	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	
Potassium	4.3	1.0	mg/L	
Zinc	< 0.1	0.1	mg/L	
SPLP Mercury Method 1312 Method: 7470A				
Analysis Date: 12/19/17				
Mercury	< 0.0005	0.0005	mg/L	



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Analytical Report

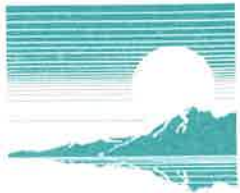
Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-4-03 (4-8)
Sample No: 17-6903-024

Date Collected: 12/11/17
Time Collected: 13:40
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction	Method: 1312			
Analysis Date: 12/18/17				
SPLP Metals Extraction	Complete			
pH @ 25°C, 1:2	Method: 9045D 2004			
Analysis Date: 12/14/17 10:55				
pH @ 25°C, 1:2	8.79		Units	

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.5	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104.2	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	86.8	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	79.4	45	112
8270C	2-Fluorophenol (Surr)	%R:	56.4	41	84
8270C	d14-Terphenyl (Surr)	%R:	78.5	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	64.1	35	105
8270C	Phenol-d5 (surr)	%R:	60.1	50	100



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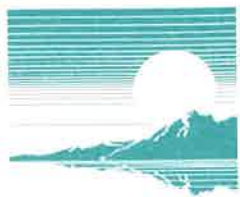
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-4-04 (0-4)
Sample No: 17-6903-025

Date Collected: 12/11/17
Time Collected: 13:50
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 12/13/17				
Total Solids	84.88		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 12/15/17				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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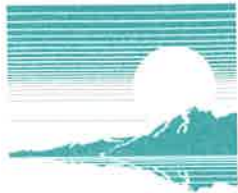
Analytical Report

Client: IIUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-4-04 (0-4)
Sample No: 17-6903-025

Date Collected: 12/11/17
Time Collected: 13:50
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 12/15/17				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 12/15/17				
Preparation Date: 12/14/17				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-4-04 (0-4)
Sample No: 17-6903-025

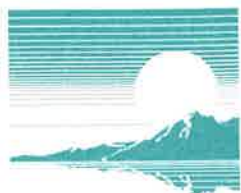
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Time Collected: 13:50
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Analysis Date: 12/15/17				
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	

Preparation Method 3540C
 Preparation Date: 12/14/17

Method: 8270C



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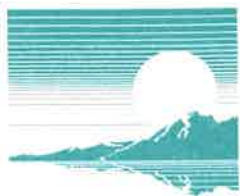
Analytical Report

Client: IIUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-4-04 (0-4)
Sample No: 17-6903-025

Date Collected: 12/11/17
Time Collected: 13:50
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 12/15/17		Preparation Date: 12/14/17		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals				
Method: 6010C		Preparation Method 3050B		
Analysis Date: 12/15/17		Preparation Date: 12/15/17		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	12.7	1.0	mg/kg	
Barium	43.8	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	15,600	50	mg/kg	
Chromium	12.5	0.5	mg/kg	
Cobalt	3.9	0.5	mg/kg	
Copper	10.2	0.5	mg/kg	
Iron	17,100	5.0	mg/kg	
Lead	8.6	0.5	mg/kg	
Magnesium	9,800	50	mg/kg	
Manganese	219	0.5	mg/kg	
Nickel	10.0	0.5	mg/kg	
Potassium	613	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	2,340	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	36.1	1.0	mg/kg	
Zinc	26.6	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 12/21/17				
Mercury	< 0.05	0.05	mg/kg	
TCLP Metals Method 1311				
Method: 6010C		Preparation Method 3010A		
Analysis Date: 12/20/17		Preparation Date: 12/19/17		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	



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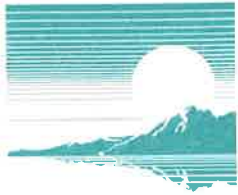
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-4-04 (0-4)
Sample No: 17-6903-025

Date Collected: 12/11/17
Time Collected: 13:50
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 12/20/17				Preparation Date: 12/19/17
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: 12/20/17				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction		Method: 1311		
Analysis Date: 12/18/17				
TCLP Extraction	Complete			
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 12/20/17				Preparation Date: 12/18/17
Arsenic	0.026	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.046	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.043	0.005	mg/L	
Iron	49.2	0.1	mg/L	
Lead	0.020	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	
Potassium	3.4	1.0	mg/L	
Zinc	0.1	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 12/19/17				
Mercury	< 0.0005	0.0005	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-4-04 (0-4)
Sample No: 17-6903-025

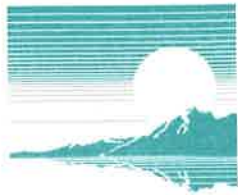
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Time Collected: 13:50
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction	Method: 1312			
Analysis Date: 12/18/17				
SPLP Metals Extraction	Complete			

pH @ 25°C, 1:2	Method: 9045D 2004			
Analysis Date: 12/14/17 10:55				
pH @ 25°C, 1:2	8.40		Units	

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	98.8	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	82.8	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	72.4	45	112
8270C	2-Fluorophenol (Surr)	%R:	52.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	79.5	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	64.8	35	105
8270C	Phenol-d5 (surr)	%R:	58.3	50	100



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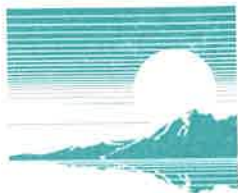
Analytical Report

Client: IIUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-4-04 (4-8)
Sample No: 17-6903-026

Date Collected: 12/11/17
Time Collected: 13:55
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 12/13/17				
Total Solids	83.94		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 12/15/17				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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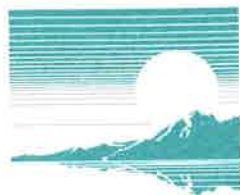
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-4-04 (4-8)
Sample No: 17-6903-026

Date Collected: 12/11/17
Time Collected: 13:55
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 12/15/17				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 12/18/17				
Preparation Date: 12/14/17				
Acenaphthene	< 660	330	ug/kg	
Acenaphthylene	< 660	330	ug/kg	
Anthracene	< 660	330	ug/kg	
Benzidine	< 660	330	ug/kg	
Benzo(a)anthracene	< 660	330	ug/kg	
Benzo(a)pyrene	< 180	90	ug/kg	
Benzo(b)fluoranthene	< 660	330	ug/kg	
Benzo(k)fluoranthene	< 660	330	ug/kg	
Benzo(ghi)perylene	< 660	330	ug/kg	
Benzoic acid	< 660	330	ug/kg	
Benzyl alcohol	< 660	330	ug/kg	
bis(2-Chloroethoxy)methane	< 660	330	ug/kg	
bis(2-Chloroethyl)ether	< 660	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 660	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 660	330	ug/kg	
4-Bromophenyl phenyl ether	< 660	330	ug/kg	
Butyl benzyl phthalate	< 660	330	ug/kg	
Carbazole	< 660	330	ug/kg	
4-Chloroaniline	< 660	330	ug/kg	
4-Chloro-3-methylphenol	< 660	330	ug/kg	
2-Chloronaphthalene	< 660	330	ug/kg	
2-Chlorophenol	< 660	330	ug/kg	
4-Chlorophenyl phenyl ether	< 660	330	ug/kg	
Chrysene	< 660	330	ug/kg	
Dibenzo(a,h)anthracene	< 180	90	ug/kg	
Dibenzofuran	< 660	330	ug/kg	
1,2-Dichlorobenzene	< 660	330	ug/kg	
1,3-Dichlorobenzene	< 660	330	ug/kg	
1,4-Dichlorobenzene	< 660	330	ug/kg	
3,3'-Dichlorobenzidine	< 1,320	660	ug/kg	
2,4-Dichlorophenol	< 660	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-4-04 (4-8)
Sample No: 17-6903-026

Date Collected: 12/11/17
Time Collected: 13:55
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Analysis Date: 12/18/17				
	Method: 8270C		Preparation Method 3540C	
			Preparation Date: 12/14/17	
Diethyl phthalate	< 660	330	ug/kg	
2,4-Dimethylphcnol	< 660	330	ug/kg	
Dimethyl phthalate	< 660	330	ug/kg	
Di-n-butyl phthalate	< 660	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 3,200	1600	ug/kg	
2,4-Dinitrophenol	< 3,200	1600	ug/kg	
2,4-Dinitrotoluene	< 500	250	ug/kg	
2,6-Dinitrotoluene	< 520	260	ug/kg	
Di-n-octylphthalate	< 660	330	ug/kg	
Fluoranthene	< 660	330	ug/kg	
Fluorene	< 660	330	ug/kg	
Hexachlorobenzene	< 660	330	ug/kg	
Hexachlorobutadiene	< 660	330	ug/kg	
Hexachlorocyclopentadiene	< 660	330	ug/kg	
Hexachloroethane	< 660	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 660	330	ug/kg	
Isophorone	< 660	330	ug/kg	
2-Methylnaphthalene	< 660	330	ug/kg	
2-Methylphenol	< 660	330	ug/kg	
3 & 4-Methylphenol	< 660	330	ug/kg	
Naphthalene	< 660	330	ug/kg	
2-Nitroaniline	< 3,200	1600	ug/kg	
3-Nitroaniline	< 3,200	1600	ug/kg	
4-Nitroaniline	< 3,200	1600	ug/kg	
Nitrobenzene	< 520	260	ug/kg	
2-Nitrophenol	< 3,200	1600	ug/kg	
4-Nitrophenol	< 3,200	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 180	90	ug/kg	
n-Nitrosodimethylamine	< 660	330	ug/kg	
n-Nitrosodiphenylamine	< 660	330	ug/kg	
Pentachlorophenol	< 660	330	ug/kg	
Phenanthrene	< 660	330	ug/kg	
Phenol	< 660	330	ug/kg	
Pyrene	< 660	330	ug/kg	
Pyridine	< 660	330	ug/kg	
1,2,4-Trichlorobenzene	< 660	330	ug/kg	



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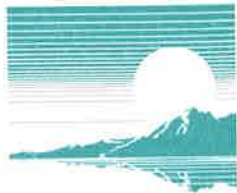
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-4-04 (4-8)
Sample No: 17-6903-026

Date Collected: 12/11/17
Time Collected: 13:55
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 12/18/17		Preparation Date: 12/14/17		
2,4,5-Trichlorophenol	< 660	330	ug/kg	
2,4,6-Trichlorophenol	< 660	330	ug/kg	
Total Metals				
Method: 6010C		Preparation Method 3050B		
Analysis Date: 12/15/17		Preparation Date: 12/15/17		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	1.8	1.0	mg/kg	
Barium	24.2	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	86,100	50	mg/kg	
Chromium	10.3	0.5	mg/kg	
Cobalt	2.4	0.5	mg/kg	
Copper	10.1	0.5	mg/kg	
Iron	7,110	5.0	mg/kg	
Lead	16.7	0.5	mg/kg	
Magnesium	52,900	50	mg/kg	
Manganese	206	0.5	mg/kg	
Nickel	7.8	0.5	mg/kg	
Potassium	644	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	1,260	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	18.4	1.0	mg/kg	
Zinc	25.6	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 12/21/17				
Mercury	< 0.05	0.05	mg/kg	
TCLP Metals Method 1311				
Method: 6010C		Preparation Method 3010A		
Analysis Date: 12/20/17		Preparation Date: 12/19/17		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-4-04 (4-8)
Sample No: 17-6903-026

Date Collected: 12/11/17
Time Collected: 13:55
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 12/20/17				Preparation Date: 12/19/17
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	4.7	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: 12/20/17				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction		Method: 1311		
Analysis Date: 12/18/17				
TCLP Extraction	Complete			
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 12/20/17				Preparation Date: 12/18/17
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	0.145	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.095	0.005	mg/L	
Iron	111	0.1	mg/L	
Lead	0.158	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	
Potassium	8.6	1.0	mg/L	
Zinc	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 12/19/17				
Mercury	< 0.0005	0.0005	mg/L	



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Analytical Report

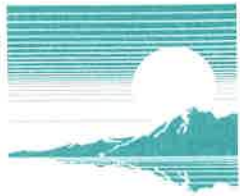
Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-4-04 (4-8)
Sample No: 17-6903-026

Date Collected: 12/11/17
Time Collected: 13:55
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction	Method: 1312			
Analysis Date: 12/18/17				
SPLP Metals Extraction	Complete			
pH @ 25°C, 1:2	Method: 9045D 2004			
Analysis Date: 12/14/17 10:55				
pH @ 25°C, 1:2	8.77		Units	

Method	Analyte	QC Result	%R Limits	
			Low	Hlgh
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 99.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 102.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 106.8	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 87.7	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 87.7	45	112
8270C	2-Fluorophenol (Surr)	%R: 63.5	41	84
8270C	d14-Terphenyl (Surr)	%R: 80.5	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 72.8	35	105
8270C	Phenol-d5 (surr)	%R: 66.4	50	100



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-8-02 (0-4)
Sample No: 17-6903-012

Date Collected: 12/11/17
Time Collected: 12:10
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 12/13/17				
Total Solids	83.80		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 12/14/17				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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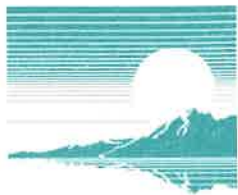
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-8-02 (0-4)
Sample No: 17-6903-012

Date Collected: 12/11/17
Time Collected: 12:10
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 12/14/17				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 12/14/17				
Preparation Date: 12/13/17				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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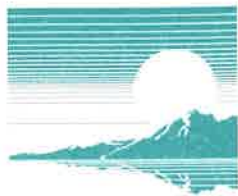
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-8-02 (0-4)
Sample No: 17-6903-012

Date Collected: 12/11/17
Time Collected: 12:10
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Analysis Date: 12/14/17				
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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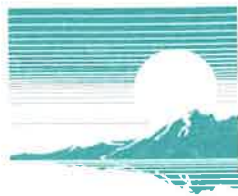
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-8-02 (0-4)
Sample No: 17-6903-012

Date Collected: 12/11/17
Time Collected: 12:10
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 12/14/17		Preparation Date: 12/13/17		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals				
Method: 6010C		Preparation Method 3050B		
Analysis Date: 12/15/17		Preparation Date: 12/13/17		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.3	1.0	mg/kg	
Barium	49.8	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	6,400	50	mg/kg	
Chromium	12.0	0.5	mg/kg	
Cobalt	5.0	0.5	mg/kg	
Copper	20.9	0.5	mg/kg	
Iron	14,900	5.0	mg/kg	
Lead	6.4	0.5	mg/kg	
Magnesium	3,900	50	mg/kg	
Manganese	231	0.5	mg/kg	
Nickel	12.7	0.5	mg/kg	
Potassium	626	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	2,480	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	43.0	1.0	mg/kg	
Zinc	26.3	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 12/21/17				
Mercury	< 0.05	0.05	mg/kg	
TCLP Metals Method 1311				
Method: 6010C		Preparation Method 3010A		
Analysis Date: 12/19/17		Preparation Date: 12/18/17		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	



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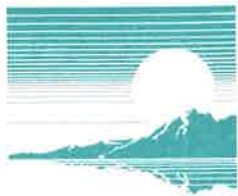
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-8-02 (0-4)
Sample No: 17-6903-012

Date Collected: 12/11/17
Time Collected: 12:10
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 12/19/17				Preparation Date: 12/18/17
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	2.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	7.7	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	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: 12/20/17				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extractlon		Method: 1311		
Analysis Date: 12/18/17				
TCLP Extraction	Complete			
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 12/19/17				Preparation Date: 12/18/17
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.053	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.046	0.005	mg/L	
Iron	41.4	0.1	mg/L	
Lead	0.024	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	
Potassium	4.4	1.0	mg/L	
Zinc	< 0.1	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 12/15/17				
Mercury	< 0.0005	0.0005	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-8-02 (0-4)
Sample No: 17-6903-012

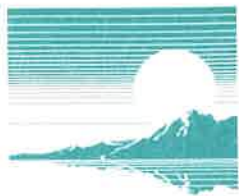
Date Collected: 12/11/17
Time Collected: 12:10
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction	Method: 1312			
Analysis Date: 12/14/17				
SPLP Metals Extraction	Complete			

pH @ 25°C, 1:2	Method: 9045D 2004			
Analysis Date: 12/14/17 10:55				
pH @ 25°C, 1:2	7.89		Units	

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.1	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R:	101.5	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103.9	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R:	90.9	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R:	76.9	45 - 112	
8270C	2-Fluorophenol (Surr)	%R:	67.6	41 - 84	
8270C	d14-Terphenyl (Surr)	%R:	79.3	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R:	76.2	35 - 105	
8270C	Phenol-d5 (surr)	%R:	75.4	50 - 100	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-8-02 (4-8)
Sample No: 17-6903-013

Date Collected: 12/11/17
Time Collected: 12:15
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 12/13/17				
Total Solids	80.08		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 12/14/17				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	6.1	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-8-02 (4-8)
Sample No: 17-6903-013

Date Collected: 12/11/17
Time Collected: 12:15
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 12/14/17				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 12/14/17				
Preparation Date: 12/13/17				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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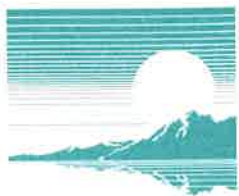
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-8-02 (4-8)
Sample No: 17-6903-013

Date Collected: 12/11/17
Time Collected: 12:15
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 12/14/17		Preparation Date: 12/13/17		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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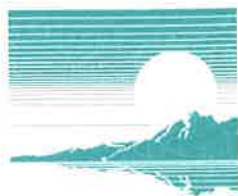
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-8-02 (4-8)
Sample No: 17-6903-013

Date Collected: 12/11/17
Time Collected: 12:15
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 12/14/17				Preparation Date: 12/13/17
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 12/15/17				Preparation Date: 12/13/17
Antimony	< 1.0	1.0	mg/kg	
Arsenic	< 1.0	1.0	mg/kg	
Barium	38.6	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	9,530	50	mg/kg	
Chromium	15.8	0.5	mg/kg	
Cobalt	3.3	0.5	mg/kg	
Copper	13.8	0.5	mg/kg	
Iron	10,000	5.0	mg/kg	
Lead	6.7	0.5	mg/kg	
Magnesium	6,180	50	mg/kg	
Manganese	65.2	0.5	mg/kg	
Nickel	10.2	0.5	mg/kg	
Potassium	716	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	2,370	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	30.8	1.0	mg/kg	
Zinc	45.9	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 12/21/17				
Mercury	0.17	0.05	mg/kg	
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 12/19/17				Preparation Date: 12/18/17
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	



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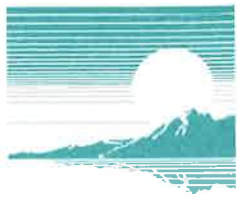
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-8-02 (4-8)
Sample No: 17-6903-013

Date Collected: 12/11/17
Time Collected: 12:15
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 12/19/17				Preparation Date: 12/18/17
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	0.8	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: 12/20/17				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction		Method: 1311		
Analysis Date: 12/18/17				
TCLP Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 12/19/17				Preparation Date: 12/18/17
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.143	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.103	0.005	mg/L	
Iron	89.0	0.1	mg/L	
Lead	0.037	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	
Potassium	7.2	1.0	mg/L	
Zinc	0.4	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 12/15/17				
Mercury	< 0.0005	0.0005	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-8-02 (4-8)
Sample No: 17-6903-013

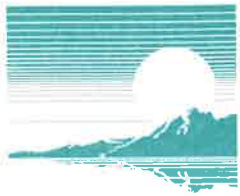
Date Collected: 12/11/17
Time Collected: 12:15
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction	Method: 1312			
Analysis Date: 12/14/17				
SPLP Metals Extraction	Complete			

pH @ 25°C, 1:2	Method: 9045D 2004			
Analysis Date: 12/14/17 10:55				
pH @ 25°C, 1:2	7.94		Units	

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.4	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.5	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	101.5	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	90.3	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	74.8	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	67.3	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	82.8	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	56	35 -	105
8270C	Phenol-d5 (surr)	%R:	73.6	50 -	100



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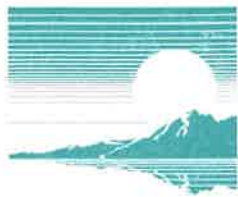
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-8-02 (8-12)
Sample No: 17-6903-014

Date Collected: 12/11/17
Time Collected: 12:20
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 12/13/17				
Total Solids	89.32		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 12/14/17				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-8-02 (8-12)
Sample No: 17-6903-014

Date Collected: 12/11/17
Time Collected: 12:20
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 12/14/17				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 12/15/17				
Preparation Date: 12/14/17				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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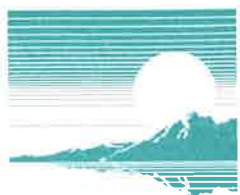
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-8-02 (8-12)
Sample No: 17-6903-014

Date Collected: 12/11/17
Time Collected: 12:20
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C		Preparation Method 3540C	
Analysis Date: 12/15/17			Preparation Date: 12/14/17	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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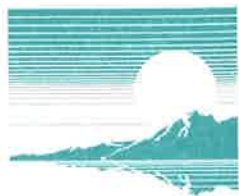
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-8-02 (8-12)
Sample No: 17-6903-014

Date Collected: 12/11/17
Time Collected: 12:20
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 12/15/17		Preparation Date: 12/14/17		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals				
Method: 6010C		Preparation Method 3050B		
Analysis Date: 12/15/17		Preparation Date: 12/13/17		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	< 1.0	1.0	mg/kg	
Barium	6.3	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	63,900	50	mg/kg	
Chromium	4.5	0.5	mg/kg	
Cobalt	1.5	0.5	mg/kg	
Copper	5.7	0.5	mg/kg	
Iron	5,040	5.0	mg/kg	
Lead	3.0	0.5	mg/kg	
Magnesium	34,300	50	mg/kg	
Manganese	127	0.5	mg/kg	
Nickel	4.9	0.5	mg/kg	
Potassium	698	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	242	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	10.2	1.0	mg/kg	
Zinc	19.3	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 12/21/17				
Mercury	< 0.05	0.05	mg/kg	
TCLP Metals Method 1311				
Method: 6010C		Preparation Method 3010A		
Analysis Date: 12/19/17		Preparation Date: 12/18/17		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	



**First
Environmental
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IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-8-02 (8-12)
Sample No: 17-6903-014

Date Collected: 12/11/17
Time Collected: 12:20
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 12/19/17				Preparation Date: 12/18/17
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: 12/20/17				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction		Method: 1311		
Analysis Date: 12/18/17				
TCLP Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 12/19/17				Preparation Date: 12/18/17
Arsenic	< 0.010	0.010	mg/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	0.016	0.005	mg/L	
Iron	9.3	0.1	mg/L	
Lead	0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Potassium	2.7	1.0	mg/L	
Zinc	< 0.1	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 12/15/17				
Mercury	< 0.0005	0.0005	mg/L	



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Analytical Report

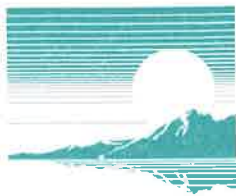
Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-8-02 (8-12)
Sample No: 17-6903-014

Date Collected: 12/11/17
Time Collected: 12:20
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction	Method: 1312			
Analysis Date: 12/14/17				
SPLP Metals Extraction	Complete			
pH @ 25°C, 1:2	Method: 9045D 2004			
Analysis Date: 12/14/17 10:55				
pH @ 25°C, 1:2	8.94		Units	

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>Low</i>	<i>High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 100.8	86	117	
5035A/8260B	d8-Toluene (Surr)	%R: 102.8	90	110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 104.2	77	120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 91.9	59	131	
8270C	2-Fluorobiphenyl (Surr)	%R: 79.8	45	112	
8270C	2-Fluorophenol (Surr)	%R: 60.4	41	84	
8270C	d14-Terphenyl (Surr)	%R: 75.9	56	120	
8270C	d5-Nitrobenzene (Surr)	%R: 71.1	35	105	
8270C	Phenol-d5 (surr)	%R: 62.4	50	100	



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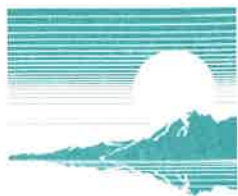
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-8-02 (12-13)
Sample No: 17-6903-015

Date Collected: 12/11/17
Time Collected: 12:25
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 12/13/17				
Total Solids	85.04		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 12/14/17				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	6.2	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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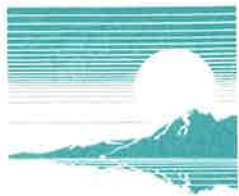
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-8-02 (12-13)
Sample No: 17-6903-015

Date Collected: 12/11/17
Time Collected: 12:25
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 12/14/17				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 12/18/17				
Preparation Date: 12/14/17				
Acenaphthene	< 1,980	330	ug/kg	
Acenaphthylene	< 1,980	330	ug/kg	
Anthracene	< 1,980	330	ug/kg	
Benzidine	< 1,980	330	ug/kg	
Benzo(a)anthracene	< 1,980	330	ug/kg	
Benzo(a)pyrene	< 540	90	ug/kg	
Benzo(b)fluoranthene	< 1,980	330	ug/kg	
Benzo(k)fluoranthene	< 1,980	330	ug/kg	
Benzo(ghi)perylene	< 1,980	330	ug/kg	
Benzoic acid	< 1,980	330	ug/kg	
Benzyl alcohol	< 1,980	330	ug/kg	
bis(2-Chloroethoxy)methane	< 1,980	330	ug/kg	
bis(2-Chloroethyl)ether	< 1,980	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 1,980	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 1,980	330	ug/kg	
4-Bromophenyl phenyl ether	< 1,980	330	ug/kg	
Butyl benzyl phthalate	< 1,980	330	ug/kg	
Carbazole	< 1,980	330	ug/kg	
4-Chloroaniline	< 1,980	330	ug/kg	
4-Chloro-3-methylphenol	< 1,980	330	ug/kg	
2-Chloronaphthalene	< 1,980	330	ug/kg	
2-Chlorophenol	< 1,980	330	ug/kg	
4-Chlorophenyl phenyl ether	< 1,980	330	ug/kg	
Chrysene	< 1,980	330	ug/kg	
Dibenzo(a,h)anthracene	< 540	90	ug/kg	
Dibenzofuran	< 1,980	330	ug/kg	
1,2-Dichlorobenzene	< 1,980	330	ug/kg	
1,3-Dichlorobenzene	< 1,980	330	ug/kg	
1,4-Dichlorobenzene	< 1,980	330	ug/kg	
3,3'-Dichlorobenzidine	< 3,960	660	ug/kg	
2,4-Dichlorophenol	< 1,980	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-8-02 (12-13)
Sample No: 17-6903-015

Date Collected: 12/11/17
Time Collected: 12:25
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Analysis Date: 12/18/17				
	Method: 8270C		Preparation Method 3540C	
			Preparation Date: 12/14/17	
Diethyl phthalate	< 1,980	330	ug/kg	
2,4-Dimethylphenol	< 1,980	330	ug/kg	
Dimethyl phthalate	< 1,980	330	ug/kg	
Di-n-butyl phthalate	< 1,980	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 9,600	1600	ug/kg	
2,4-Dinitrophenol	< 9,600	1600	ug/kg	
2,4-Dinitrotoluene	< 1,500	250	ug/kg	
2,6-Dinitrotoluene	< 1,560	260	ug/kg	
Di-n-octylphthalate	< 1,980	330	ug/kg	
Fluoranthene	< 1,980	330	ug/kg	
Fluorene	< 1,980	330	ug/kg	
Hexachlorobenzene	< 1,980	330	ug/kg	
Hexachlorobutadiene	< 1,980	330	ug/kg	
Hexachlorocyclopentadiene	< 1,980	330	ug/kg	
Hexachloroethane	< 1,980	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 1,980	330	ug/kg	
Isophorone	< 1,980	330	ug/kg	
2-Methylnaphthalene	< 1,980	330	ug/kg	
2-Methylphenol	< 1,980	330	ug/kg	
3 & 4-Methylphenol	< 1,980	330	ug/kg	
Naphthalene	< 1,980	330	ug/kg	
2-Nitroaniline	< 9,600	1600	ug/kg	
3-Nitroaniline	< 9,600	1600	ug/kg	
4-Nitroaniline	< 9,600	1600	ug/kg	
Nitrobenzene	< 1,560	260	ug/kg	
2-Nitrophenol	< 9,600	1600	ug/kg	
4-Nitrophenol	< 9,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 540	90	ug/kg	
n-Nitrosodimethylamine	< 1,980	330	ug/kg	
n-Nitrosodiphenylamine	< 1,980	330	ug/kg	
Pentachlorophenol	< 1,980	330	ug/kg	
Phenanthrene	< 1,980	330	ug/kg	
Phenol	< 1,980	330	ug/kg	
Pyrene	< 1,980	330	ug/kg	
Pyridine	< 1,980	330	ug/kg	
1,2,4-Trichlorobenzene	< 1,980	330	ug/kg	



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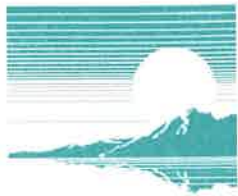
Analytical Report

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Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-8-02 (12-13)
Sample No: 17-6903-015

Date Collected: 12/11/17
Time Collected: 12:25
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 12/18/17		Preparation Date: 12/14/17		
2,4,5-Trichlorophenol	< 1,980	330	ug/kg	
2,4,6-Trichlorophenol	< 1,980	330	ug/kg	
Total Metals				
Method: 6010C		Preparation Method 3050B		
Analysis Date: 12/15/17		Preparation Date: 12/13/17		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	1.1	1.0	mg/kg	
Barium	10.2	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	104,000	50	mg/kg	
Chromium	7.8	0.5	mg/kg	
Cobalt	2.0	0.5	mg/kg	
Copper	6.8	0.5	mg/kg	
Iron	7,670	5.0	mg/kg	
Lead	2.2	0.5	mg/kg	
Magnesium	61,200	50	mg/kg	
Manganese	134	0.5	mg/kg	
Nickel	6.5	0.5	mg/kg	
Potassium	1,000	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	605	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	15.6	1.0	mg/kg	
Zinc	14.9	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 12/21/17				
Mercury	< 0.05	0.05	mg/kg	
TCLP Metals Method 1311				
Method: 6010C		Preparation Method 3010A		
Analysis Date: 12/19/17		Preparation Date: 12/18/17		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	



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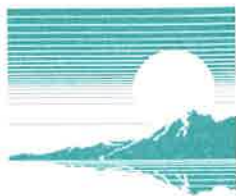
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Sample ID: 2895-8-02 (12-13)
Sample No: 17-6903-015

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Time Collected: 12:25
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 12/19/17				Preparation Date: 12/18/17
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: 12/20/17				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction		Method: 1311		
Analysis Date: 12/18/17				
TCLP Extraction	Complete			
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 12/20/17				Preparation Date: 12/18/17
Arsenic	< 0.010	0.010	mg/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	0.018	0.005	mg/L	
Iron	13.3	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	
Potassium	2.3	1.0	mg/L	
Zinc	< 0.1	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 12/19/17				
Mercury	< 0.0005	0.0005	mg/L	



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Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction	Method: 1312			
Analysis Date: 12/18/17				
SPLP Metals Extraction	Complete			
pH @ 25°C, 1:2	Method: 9045D 2004			
Analysis Date: 12/14/17 10:55				
pH @ 25°C, 1:2	8.72		Units	

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>Low</i>	<i>High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 100.3	86	117	
5035A/8260B	d8-Toluene (Surr)	%R: 102.2	90	110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 98.3	77	120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 102	59	131	
8270C	2-Fluorobiphenyl (Surr)	%R: 104.4	45	112	
8270C	2-Fluorophenol (Surr)	%R: 75.4	41	84	
8270C	d14-Terphenyl (Surr)	%R: 107.5	56	120	
8270C	d5-Nitrobenzene (Surr)	%R: 73.8	35	105	
8270C	Phenol-d5 (surr)	%R: 73.2	50	100	



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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: FAP 525&FAP 345/US Route 20 over Harmony Crk Office Phone Number, if available: _____

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

2895-1 (18N600 block of US-20) and 2895-7 (12020 US-20)

City: Hampshire State: IL Zip Code: 60140

County: Kane / McHenry Township: T43N / Hampshire

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

Latitude: 42.141227 Longitude: -88.506076

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS Map Interpolation Photo Interpolation Survey Other

ISGS Public Land Survey System - Approximate Center of multiple addresses

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Dept. of Transportation, District 1

Name: Illinois Dept. of Transportation, District 1

Street Address: 201 W Center Court

Street Address: 201 W Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4101

Zip Code: 60196 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@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.

Project Name: FAP 525&FAP 345/US Route 20 over Harmony Cr.

Latitude: 42.141227 Longitude: -88.506076

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

Refer to Figure 4-1.1 and 4-1.2 in the Final PSI Report and borings 2895-1-02 (Sta 8+00 to 11+25, Right); 2895-1-03 (Sta 8+00 to 12+00, Left); 2895-1-05 (Sta 12+00 to 15+00, Left); 2895-7-01 (Sta 110+25 to 110+75, 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 #17-6903. 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.

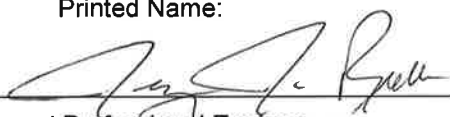
Street Address: 915 Harger Road, Suite 330

City: Oak Brook State: IL Zip Code: 60523

Phone: 630-684-9100

Jeremy J. Reynolds, P.G.

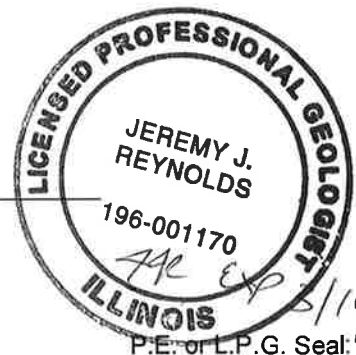
Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

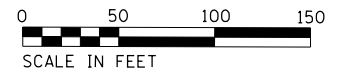
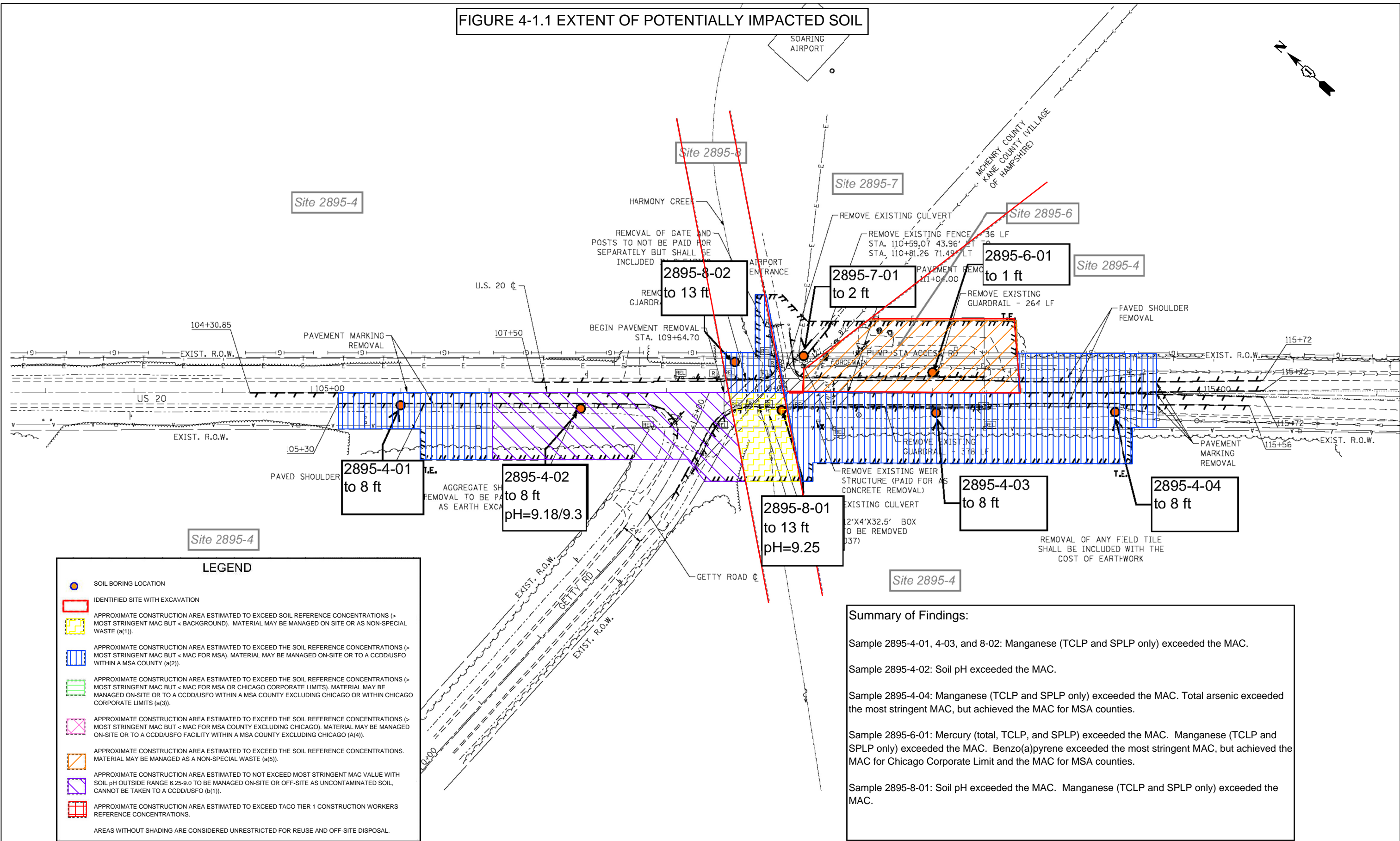
2/8/18

Date:



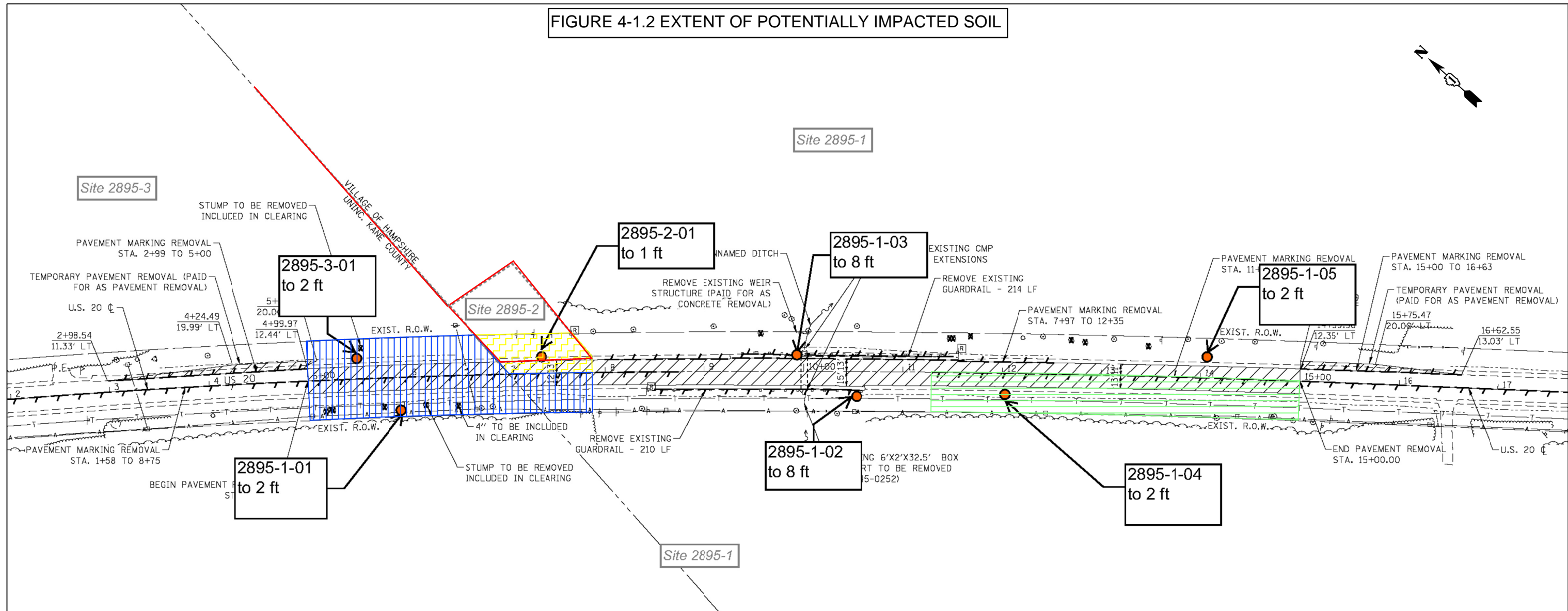
P.E. or L.P.G. Seal:

FIGURE 4-1.1 EXTENT OF POTENTIALLY IMPACTED SOIL



FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US ROUTE 20 OVER HARMONY CREEK (AT GETTY ROAD) REMOVAL PLAN			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -		SCALE: 1" = 100'	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.	525/345	KANE/MCHENRY	2	2
		CHECKED -	REVISED -		ILLINOIS CONTRACT NO.							
		DATE -	REVISED -									

FIGURE 4-1.2 EXTENT OF POTENTIALLY IMPACTED SOIL



LEGEND

- SOIL BORING LOCATION
- IDENTIFIED SITE WITH EXCAVATION
- 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.

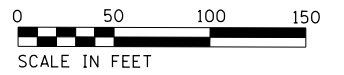
AREAS WITHOUT SHADING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.

Summary of Findings:

Sample 2895-1-01 and 2895-3-01: Manganese (TCLP and SPLP only) exceeded the MAC.

Sample 2895-1-04: Manganese (TCLP and SPLP only) exceeded the MAC. Benzo(a)pyrene exceeded the most stringent MAC, but achieved the MAC for Chicago Corporate Limit and the MAC for MSA counties.

Samples 2895-2-01: Lead (total, TCLP, and SPLP) exceeded the MAC. Benzo(a)pyrene exceeded the most stringent MAC, but achieved the MAC for Chicago Corporate Limit and the MAC for MSA counties.



FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US ROUTE 20 OVER AN UNNAMED DITCH (AKA EAKIN CREEK WEST) REMOVAL PLAN	F.A.U. RTE. 525/345	SECTION	COUNTY KANE/MCHENRY	TOTAL SHEETS 2	SHEET NO. 1
		DRAWN -	REVISED -		SCALE: 1" = 100'	SHEET NO. 1 OF 2 SHEETS				
		CHECKED -	REVISED -		STA. TO STA.					
		DATE -	REVISED -		ILLINOIS					

LPC-663 Results Table for Sites 2895-1-02, 1-03, 1-05, and 7-01
Soils for Unrestricted Reuse or Disposal Including CCDD/USFO Facilities

Boring ID	2895-1-02	2895-1-02	2895-1-03	2895-1-03	2895-1-05	2895-7-01	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}
Sample Depth, ft	0-4	4-8	0-4	4-8	0-2	0-2		
Sample Date	12/11/2017	12/11/2017	12/11/2017	12/11/2017	12/11/2017	12/11/2017		
Excavation Area(s) [ISGS Site No.(s)]	2895-1	2895-1	2895-1	2895-1	2895-1	2895-7		
Parameter								
Laboratory soil pH (s.u.)	8.18	7.83	8.14	7.83	8.44	8.27	<6.25, >9.0	---
VOCS (mg/kg)	Non-Detect							
SVOCs, mg/kg	Non-Detect							
Total Metals, mg/kg								
Arsenic	<1.0	1.8	<1.0	1.1	3.7	2.1	11.3 / 13	61
Barium	91.9	22.2	86.6	27	61.1	12	1,500	14,000
Beryllium	0.6	<0.5	0.6	<0.5	<0.5	<0.5	22	410
Cadmium	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.2	200
Calcium	4880	72000	3550	83600	10300	66000	---	---
Chromium	17	9.7	17.2	11.4	16	8	21	690
Cobalt	6.7	5.2	5.5	4.9	5.6	2.4	20	12,000
Copper	20	9.8	14.2	11.4	29.1	5.7	2,900	8,200
Iron	13500	9200	13200	12000	14800	7920	15,000 / 15,900	---
Lead	9.4	4.1	9	4.6	75.4	5	107	700
Magnesium	3610	30600	2830	40400	5970	41400	325,000	730,000
Manganese	84.7	232	130	313	366	103	630 / 636	4,100
Mercury	<0.05	<0.05	<0.05	<0.05	<0.05	0.32	0.89	0.1
Nickel	15.6	11.4	13.1	12.9	10.2	6.1	100	4,100
Potassium	422	1230	402	1670	818	597	---	---
Selenium	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.3	1,000
Silver	0.5	0.3	0.5	0.4	0.5	0.3	4.4	1,000
Sodium	404	152	792	342	396	162	---	---
Thallium	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.6	160
Vanadium	36.4	13.8	38.7	18.3	27.5	13.9	550	1,400
Zinc	33.2	17.7	31.8	23.3	79.1	16.1	5,100	61,000
TCLP Metals, mg/L							Class I Groundwater ^{c/}	
Arsenic	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.05	
Barium	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2	
Beryllium	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	0.004	
Cadmium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	
Chromium	<0.005	<0.005	<0.005	<0.005	0.008	<0.005	0.1	
Cobalt	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1	
Copper	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.65	
Iron	0.3	0.3	0.6	<0.1	0.3	<0.1	5	
Lead	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0075	
Manganese	0.5	1.5	0.1	1.6	<0.1	0.1	0.15	
Mercury	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.002	
Nickel	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	
Selenium	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.05	
Silver	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.05	
Zinc	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	5	
SPLP Metals, mg/L								
Arsenic	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.05	
Barium	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2	
Beryllium	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.004	
Cadmium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	
Chromium	0.036	<0.005	0.044	<0.005	0.025	0.025	0.1	
Cobalt	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1	
Copper	0.034	<0.005	0.034	<0.005	0.028	0.014	0.65	
Iron	19.3	0.7	27.1	2.9	19.8	21.1	5	
Lead	0.013	<0.005	0.011	<0.005	0.051	0.016	0.0075	
Manganese	<0.1	<0.1	0.1	<0.1	0.2	0.2	0.15	
Mercury	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0007	0.002	
Nickel	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	
Selenium	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.05	
Silver	---	---	---	---	---	---	0.05	
Zinc	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	5	

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

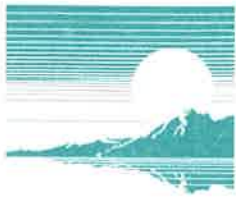
^{a/} Soil reference concentrations from MAC table. Background values for MSA counties are included as applicable.

Inorganic Soil Reference Concentrations (xx.xx / xx.xx) Include the Most Stringent values from the MAC Table / and th

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

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

Shaded values indicate concentration exceeds reference concentration



**First
Environmental
Laboratories, Inc.**

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 12/11/17

Project ID: IDOT WO#6 Hampshire #81.0220509.12

Time Collected: 10:10

Sample ID: 2895-1-02 (0-4)

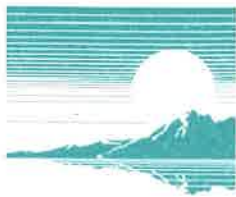
Date Received: 12/12/17

Sample No: 17-6903-002

Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 12/13/17				
Total Solids	77.76		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 12/14/17				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

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Date Collected: 12/11/17

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Time Collected: 10:10

Sample ID: 2895-1-02 (0-4)

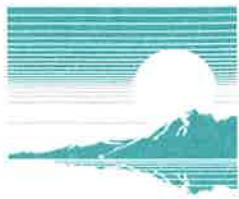
Date Received: 12/12/17

Sample No: 17-6903-002

Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 12/14/17				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 12/14/17		Preparation Date: 12/13/17		
Acenaphthene	< 330	330	ug/kg	
Accnaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-1-02 (0-4)
Sample No: 17-6903-002

Date Collected: 12/11/17
Time Collected: 10:10
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Analysis Date: 12/14/17				
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Laboratories, Inc.**

IL ELAP / NELAC Accreditation # 100292

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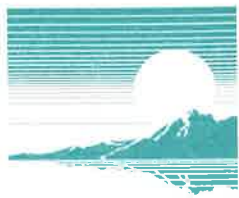
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-1-02 (0-4)
Sample No: 17-6903-002

Date Collected: 12/11/17
Time Collected: 10:10
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 12/14/17				Preparation Date: 12/13/17
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 12/15/17				Preparation Date: 12/13/17
Antimony	< 1.0	1.0	mg/kg	
Arsenic	< 1.0	1.0	mg/kg	
Barium	91.9	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	4,880	50	mg/kg	
Chromium	17.0	0.5	mg/kg	
Cobalt	6.7	0.5	mg/kg	
Copper	20.0	0.5	mg/kg	
Iron	13,500	5.0	mg/kg	
Lead	9.4	0.5	mg/kg	
Magnesium	3,610	50	mg/kg	
Manganese	84.7	0.5	mg/kg	
Nickel	15.6	0.5	mg/kg	
Potassium	422	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	404	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	36.4	1.0	mg/kg	
Zinc	33.2	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 12/19/17				
Mercury	< 0.05	0.05	mg/kg	
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 12/19/17				Preparation Date: 12/18/17
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-1-02 (0-4)
Sample No: 17-6903-002

Date Collected: 12/11/17
Time Collected: 10:10
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 12/19/17				Preparation Date: 12/18/17
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: 12/20/17				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction		Method: 1311		
Analysis Date: 12/18/17				
TCLP Extraction	Complete			
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 12/19/17				Preparation Date: 12/18/17
Arsenic	< 0.010	0.010	mg/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	0.034	0.005	mg/L	
Iron	19.3	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	
Potassium	1.8	1.0	mg/L	
Zinc	< 0.1	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 12/15/17				
Mercury	< 0.0005	0.0005	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-1-02 (0-4)
Sample No: 17-6903-002

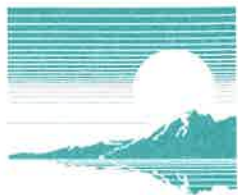
Date Collected: 12/11/17
Time Collected: 10:10
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction	Method: 1312			
Analysis Date: 12/14/17				
SPLP Metals Extraction	Complete			

pH @ 25°C, 1:2	Method: 9045D 2004			
Analysis Date: 12/14/17 10:55				
pH @ 25°C, 1:2	8.18		Units	

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.1	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	102.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	95.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	71.1	45	112
8270C	2-Fluorophenol (Surr)	%R:	62.1	41	84
8270C	d14-Terphenyl (Surr)	%R:	80.6	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	66.2	35	105
8270C	Phenol-d5 (surr)	%R:	65.8	50	100



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-1-02 (4-8)
Sample No: 17-6903-003

Date Collected: 12/11/17
Time Collected: 10:15
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 12/13/17				
Total Solids	88.95		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 12/14/17				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-1-02 (4-8)
Sample No: 17-6903-003

Date Collected: 12/11/17
Time Collected: 10:15
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds	Method: 5035A/8260B			
Analysis Date: 12/14/17				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	

Semi-Volatile Compounds	Method: 8270C		Preparation Method 3540C	
Analysis Date: 12/14/17			Preparation Date: 12/13/17	
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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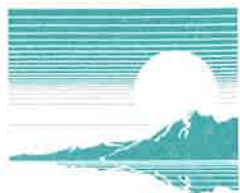
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-1-02 (4-8)
Sample No: 17-6903-003

Date Collected: 12/11/17
Time Collected: 10:15
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Analysis Date: 12/14/17				
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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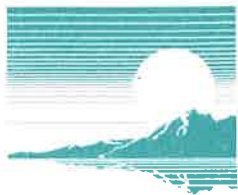
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-1-02 (4-8)
Sample No: 17-6903-003

Date Collected: 12/11/17
Time Collected: 10:15
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Unlts	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 12/14/17				Preparation Date: 12/13/17
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 12/15/17				Preparation Date: 12/13/17
Antimony	< 1.0	1.0	mg/kg	
Arsenic	1.8	1.0	mg/kg	
Barium	22.2	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	72,000	50	mg/kg	
Chromium	9.7	0.5	mg/kg	
Cobalt	5.2	0.5	mg/kg	
Copper	9.8	0.5	mg/kg	
Iron	9,200	5.0	mg/kg	
Lead	4.1	0.5	mg/kg	
Magnesium	30,600	50	mg/kg	
Manganese	232	0.5	mg/kg	
Nickel	11.4	0.5	mg/kg	
Potassium	1,230	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	152	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	13.8	1.0	mg/kg	
Zinc	17.7	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 12/19/17				
Mercury	< 0.05	0.05	mg/kg	
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 12/19/17				Preparation Date: 12/18/17
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-1-02 (4-8)
Sample No: 17-6903-003

Date Collected: 12/11/17
Time Collected: 10:15
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 12/19/17				Preparation Date: 12/18/17
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	1.5	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: 12/20/17				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction		Method: 1311		
Analysis Date: 12/18/17				
TCLP Extraction	Complete			
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 12/19/17				Preparation Date: 12/18/17
Arsenic	< 0.010	0.010	mg/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	0.7	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	
Potassium	1.0	1.0	mg/L	
Zinc	< 0.1	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 12/15/17				
Mercury	< 0.0005	0.0005	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-1-02 (4-8)
Sample No: 17-6903-003

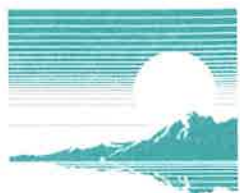
Date Collected: 12/11/17
Time Collected: 10:15
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction	Method: 1312			
Analysis Date: 12/14/17				
SPLP Metals Extraction	Complete			

pH @ 25°C, 1:2	Method: 9045D 2004			
Analysis Date: 12/14/17 10:55				
pH @ 25°C, 1:2	7.83		Units	

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	95.8	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.8	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	99.8	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	90.2	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	72.1	45	112
8270C	2-Fluorophenol (Surr)	%R:	63.6	41	84
8270C	d14-Terphenyl (Surr)	%R:	78.6	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	65.6	35	105
8270C	Phenol-d5 (surr)	%R:	64.9	50	100



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-1-05 (0-2)
Sample No: 17-6903-005

Date Collected: 12/11/17
Time Collected: 10:30
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 12/13/17				
Total Solids	80.15		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 12/14/17				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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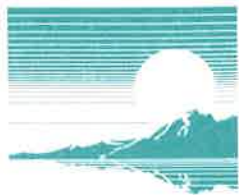
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-1-05 (0-2)
Sample No: 17-6903-005

Date Collected: 12/11/17
Time Collected: 10:30
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 12/14/17				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 12/14/17				
Preparation Date: 12/13/17				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,l)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-1-05 (0-2)
Sample No: 17-6903-005

Date Collected: 12/11/17
Time Collected: 10:30
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 12/14/17		Preparation Date: 12/13/17		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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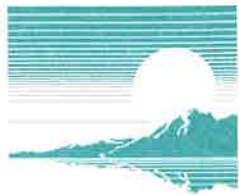
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-1-05 (0-2)
Sample No: 17-6903-005

Date Collected: 12/11/17
Time Collected: 10:30
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 12/14/17		Preparation Date: 12/13/17		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals				
Method: 6010C		Preparation Method 3050B		
Analysis Date: 12/15/17		Preparation Date: 12/13/17		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.7	1.0	mg/kg	
Barium	61.1	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	10,300	50	mg/kg	
Chromium	16.0	0.5	mg/kg	
Cobalt	5.6	0.5	mg/kg	
Copper	29.1	0.5	mg/kg	
Iron	14,800	5.0	mg/kg	
Lead	75.4	0.5	mg/kg	
Magnesium	5,970	50	mg/kg	
Manganese	366	0.5	mg/kg	
Nickel	10.2	0.5	mg/kg	
Potassium	818	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	396	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	27.5	1.0	mg/kg	
Zinc	79.1	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 12/19/17				
Mercury	< 0.05	0.05	mg/kg	
TCLP Metals Method 1311				
Method: 6010C		Preparation Method 3010A		
Analysis Date: 12/19/17		Preparation Date: 12/18/17		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.008	0.005	mg/L	



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Analytical Report

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Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-1-05 (0-2)
Sample No: 17-6903-005

Date Collected: 12/11/17
Time Collected: 10:30
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 12/19/17 Preparation Date: 12/18/17				
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	< 0.1	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: 12/20/17				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction Method: 1311				
Analysis Date: 12/18/17				
TCLP Extraction	Complete			
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 12/19/17 Preparation Date: 12/18/17				
Arsenic	< 0.010	0.010	mg/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	0.028	0.005	mg/L	
Iron	19.8	0.1	mg/L	
Lead	0.051	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	
Potassium	2.2	1.0	mg/L	
Zinc	0.1	0.1	mg/L	
SPLP Mercury Method 1312 Method: 7470A				
Analysis Date: 12/15/17				
Mercury	< 0.0005	0.0005	mg/L	



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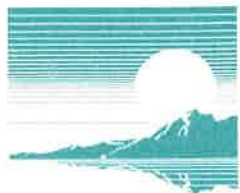
Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-1-05 (0-2)
Sample No: 17-6903-005

Date Collected: 12/11/17
Time Collected: 10:30
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction	Method: 1312			
Analysis Date: 12/14/17				
SPLP Metals Extraction	Complete			
pH @ 25°C, 1:2	Method: 9045D 2004			
Analysis Date: 12/14/17 10:55				
pH @ 25°C, 1:2	8.44		Units	

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.7	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R:	102.4	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R:	100.1	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R:	96.8	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R:	87.8	45 - 112	
8270C	2-Fluorophenol (Surr)	%R:	61	41 - 84	
8270C	d14-Terphenyl (Surr)	%R:	83.2	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R:	76.9	35 - 105	
8270C	Phenol-d5 (surr)	%R:	70.9	50 - 100	



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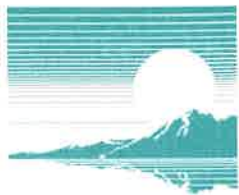
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-1-03 (0-4)
Sample No: 17-6903-006

Date Collected: 12/11/17
Time Collected: 10:35
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 12/13/17				
Total Solids	80.78		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 12/14/17				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

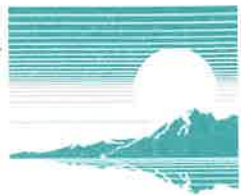
Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-1-03 (0-4)
Sample No: 17-6903-006

Date Collected: 12/11/17
Time Collected: 10:35
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds	Method: 5035A/8260B			
Analysis Date: 12/14/17				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	

Semi-Volatile Compounds	Method: 8270C		Preparation Method 3540C	
Analysis Date: 12/14/17			Preparation Date: 12/13/17	
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-1-03 (0-4)
Sample No: 17-6903-006

Date Collected: 12/11/17
Time Collected: 10:35
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 12/14/17		Preparation Date: 12/13/17		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-1-03 (0-4)
Sample No: 17-6903-006

Date Collected: 12/11/17
Time Collected: 10:35
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 12/14/17		Preparation Date: 12/13/17		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals				
Method: 6010C		Preparation Method 3050B		
Analysis Date: 12/15/17		Preparation Date: 12/13/17		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	< 1.0	1.0	mg/kg	
Barium	86.6	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,550	50	mg/kg	
Chromium	17.2	0.5	mg/kg	
Cobalt	5.5	0.5	mg/kg	
Copper	14.2	0.5	mg/kg	
Iron	13,200	5.0	mg/kg	
Lead	9.0	0.5	mg/kg	
Magnesium	2,830	50	mg/kg	
Manganese	130	0.5	mg/kg	
Nickel	13.1	0.5	mg/kg	
Potassium	402	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	792	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	38.7	1.0	mg/kg	
Zinc	31.8	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 12/19/17				
Mercury	< 0.05	0.05	mg/kg	
TCLP Metals Method 1311				
Method: 6010C		Preparation Method 3010A		
Analysis Date: 12/19/17		Preparation Date: 12/18/17		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	



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Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-1-03 (0-4)
Sample No: 17-6903-006

Date Collected: 12/11/17
Time Collected: 10:35
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 12/19/17 Preparation Date: 12/18/17				
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	0.1	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: 12/20/17				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction Method: 1311				
Analysis Date: 12/18/17				
TCLP Extraction	Complete			
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 12/19/17 Preparation Date: 12/18/17				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.044	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.034	0.005	mg/L	
Iron	27.1	0.1	mg/L	
Lead	0.011	0.005	mg/L	
Manganese	0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Potassium	2.0	1.0	mg/L	
Zinc	< 0.1	0.1	mg/L	
SPLP Mercury Method 1312 Method: 7470A				
Analysis Date: 12/15/17				
Mercury	< 0.0005	0.0005	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-1-03 (0-4)
Sample No: 17-6903-006

Date Collected: 12/11/17
Time Collected: 10:35
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction	Method: 1312			
Analysis Date: 12/14/17				
SPLP Metals Extraction	Complete			
pH @ 25°C, 1:2	Method: 9045D 2004			
Analysis Date: 12/14/17 10:55				
pH @ 25°C, 1:2	8.14		Units	

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.2	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R:	101	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R:	102.8	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R:	87.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R:	66.3	45 - 112	
8270C	2-Fluorophenol (Surr)	%R:	58	41 - 84	
8270C	d14-Terphenyl (Surr)	%R:	82.2	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R:	67.6	35 - 105	
8270C	Phenol-d5 (surr)	%R:	62.7	50 - 100	



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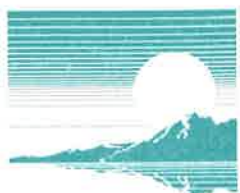
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-1-03 (4-8)
Sample No: 17-6903-007

Date Collected: 12/11/17
Time Collected: 10:40
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 12/13/17				
Total Solids	89.24		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 12/14/17				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butyl ether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-1-03 (4-8)
Sample No: 17-6903-007

Date Collected: 12/11/17
Time Collected: 10:40
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 12/14/17				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 12/14/17		Preparation Date: 12/13/17		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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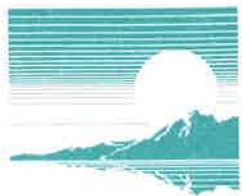
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-1-03 (4-8)
Sample No: 17-6903-007

Date Collected: 12/11/17
Time Collected: 10:40
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		
Analysis Date: 12/14/17		Preparation Method 3540C		
		Preparation Date: 12/13/17		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		
Analysis Date: 12/15/17		Preparation Method 3050B		
		Preparation Date: 12/13/17		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	1.1	1.0	mg/kg	
Barium	27.0	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	83,600	50	mg/kg	
Chromium	11.4	0.5	mg/kg	
Cobalt	4.9	0.5	mg/kg	
Copper	11.4	0.5	mg/kg	
Iron	12,000	5.0	mg/kg	
Lead	4.6	0.5	mg/kg	
Magnesium	40,400	50	mg/kg	
Manganese	313	0.5	mg/kg	
Nickel	12.9	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	342	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	18.3	1.0	mg/kg	
Zinc	23.3	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 12/19/17				
Mercury	< 0.05	0.05	mg/kg	
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 12/19/17		Preparation Method 3010A		
		Preparation Date: 12/18/17		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	



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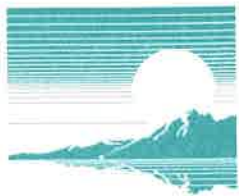
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-1-03 (4-8)
Sample No: 17-6903-007

Date Collected: 12/11/17
Time Collected: 10:40
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 12/19/17				Preparation Date: 12/18/17
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.6	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 12/20/17				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction		Method: 1311		
Analysis Date: 12/18/17				
TCLP Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 12/19/17				Preparation Date: 12/18/17
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	2.9	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Potassium	2.2	1.0	mg/L	
Zinc	< 0.1	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 12/15/17				
Mercury	< 0.0005	0.0005	mg/L	



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Sample ID: 2895-1-03 (4-8)
Sample No: 17-6903-007

Date Collected: 12/11/17
Time Collected: 10:40
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction	Method: 1312			
Analysis Date: 12/14/17				
SPLP Metals Extraction	Complete			

pH @ 25°C, 1:2	Method: 9045D 2004			
Analysis Date: 12/14/17 10:55				
pH @ 25°C, 1:2	7.83		Units	

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.8	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R:	101.6	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R:	98.6	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R:	85.6	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R:	73.3	45 - 112	
8270C	2-Fluorophenol (Surr)	%R:	61.5	41 - 84	
8270C	d14-Terphenyl (Surr)	%R:	78.1	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R:	66	35 - 105	
8270C	Phenol-d5 (surr)	%R:	63.1	50 - 100	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-7-01 (0-2)
Sample No: 17-6903-011

Date Collected: 12/11/17
Time Collected: 12:05
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 12/13/17				
Total Solids	92.06		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 12/14/17				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	5.8	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-7-01 (0-2)
Sample No: 17-6903-011

Date Collected: 12/11/17
Time Collected: 12:05
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 12/14/17				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 12/14/17				
Preparation Date: 12/13/17				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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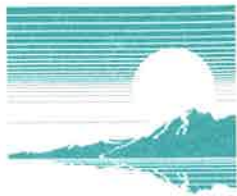
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-7-01 (0-2)
Sample No: 17-6903-011

Date Collected: 12/11/17
Time Collected: 12:05
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Analysis Date: 12/14/17				
	Method: 8270C		Preparation Method 3540C	
			Preparation Date: 12/13/17	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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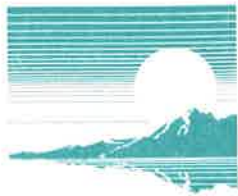
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-7-01 (0-2)
Sample No: 17-6903-011

Date Collected: 12/11/17
Time Collected: 12:05
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 12/14/17		Preparation Date: 12/13/17		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals				
Method: 6010C		Preparation Method 3050B		
Analysis Date: 12/15/17		Preparation Date: 12/13/17		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.1	1.0	mg/kg	
Barium	12.0	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	66,000	50	mg/kg	
Chromium	8.0	0.5	mg/kg	
Cobalt	2.4	0.5	mg/kg	
Copper	5.7	0.5	mg/kg	
Iron	7,920	5.0	mg/kg	
Lead	5.0	0.5	mg/kg	
Magnesium	41,400	50	mg/kg	
Manganese	103	0.5	mg/kg	
Nickel	6.1	0.5	mg/kg	
Potassium	597	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	162	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	13.9	1.0	mg/kg	
Zinc	16.1	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 12/21/17				
Mercury	0.32	0.05	mg/kg	
TCLP Metals Method 1311				
Method: 6010C		Preparation Method 3010A		
Analysis Date: 12/19/17		Preparation Date: 12/18/17		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	



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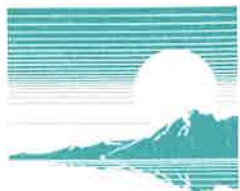
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-7-01 (0-2)
Sample No: 17-6903-011

Date Collected: 12/11/17
Time Collected: 12:05
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 12/19/17				Preparation Date: 12/18/17
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: 12/20/17				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction		Method: 1311		
Analysis Date: 12/18/17				
TCLP Extraction	Complete			
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 12/19/17				Preparation Date: 12/18/17
Arsenic	< 0.010	0.010	mg/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	µg/L	
Copper	0.014	0.005	mg/L	
Iron	21.1	0.1	mg/L	
Lead	0.016	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Potassium	3.0	1.0	mg/L	
Zinc	< 0.1	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 12/15/17				
Mercury	0.0007	0.0005	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO#6 Hampshire #81.0220509.12
Sample ID: 2895-7-01 (0-2)
Sample No: 17-6903-011

Date Collected: 12/11/17
Time Collected: 12:05
Date Received: 12/12/17
Date Reported: 12/21/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction	Method: 1312			
Analysis Date: 12/14/17				
SPLP Metals Extraction	Complete			
pH @ 25°C, 1:2	Method: 9045D 2004			
Analysis Date: 12/14/17 10:55				
pH @ 25°C, 1:2	8.27		Units	

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>Low</i>	<i>High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 97.7	86	117	
5035A/8260B	d8-Toluene (Surr)	%R: 101.9	90	110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 97.5	77	120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 91.5	59	131	
8270C	2-Fluorobiphenyl (Surr)	%R: 77.4	45	112	
8270C	2-Fluorophenol (Surr)	%R: 68.8	41	84	
8270C	d14-Terphenyl (Surr)	%R: 82.2	56	120	
8270C	d5-Nitrobenzene (Surr)	%R: 84.1	35	105	
8270C	Phenol-d5 (surr)	%R: 74.3	50	100	



Huff & Huff, a Subsidiary of GZA