

APPENDIX D

LPC-663 CCDD DOCUMENTS



Illinois Environmental Protection Agency

Page 1 of 2

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: FAU 2937/Torrence Avenue Office Phone Number, if available: _____

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

3484-2 (North Creek)

City: Lynwood State: IL Zip Code: 60411

County: Cook Township: Bloom

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

Latitude: 41.537275 Longitude: -87.558597
(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

Name: Illinois Dept. of Transportation, District 1
Street Address: 201 W Center Court
PO Box: _____
City: Schaumburg State: IL
Zip Code: 60196 Phone: 847-705-4122
Contact: Paul Nickles
Email, if available: paul.nickles@illinois.gov

Site Operator

Name: Illinois Dept. of Transportation, District 1
Street Address: 201 W Center Court
PO Box: _____
City: Schaumburg State: IL
Zip Code: 60196 Phone: 847-705-4122
Contact: Paul Nickles
Email, if available: paul.nickles@illinois.gov

Project Name: FAU 2937/Torrence AvenueLatitude: 41.537275 Longitude: -87.558597

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 4-1.3, 4-1.4, and 4-1.5 in the Final PSI Report and borings 3484-2-06 (Torrence Avenue Sta 430+00, 15 Right), 3484-2-07 (Torrence Avenue Sta 432+00, 15 Right), 3484-2-08 (Torrence Avenue Sta 434+00, 15 Right), 3484-2-13 (Torrence Avenue Sta 444+00, 15 Right), 3484-2-14 (Torrence Avenue Sta 446+00, 15 Right), 3484-2-17 (Torrence Avenue Sta 452+00, 15 Right), 3484-2-18 (Torrence Avenue Sta 454+00, 15 Right), 3484-2-20 (Torrence Avenue Sta 458+00, 15 Right), 3484-2-21 (Torrence Avenue Sta 460+00, 15 Right), and 3484-2-22 (Torrence Avenue Sta 462+00, 15 Right)

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

Refer to Tables 4-2 and 4-3 in the Final PSI Report for results summary and First Environmental Laboratories, Inc. report #18-2892. 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 330City: Oak Brook State: IL Zip Code: 60523Phone: 630-684-9100

Jeremy J. Reynolds, P.G.

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

Date:

8/14/18



LPC-663 Results Table for Site 3484-2-06, 2-07, 2-08, 2-13, 2-14, 2-17, 2-18, 2-20, 2-21, 2-22
Soils for Unrestricted Reuse or Disposal Including CCDD/USFO Facilities

Boring ID	3484-2-06	DUP-02 (3484-2-06)	3484-2-07	3484-2-08	3484-2-13	3484-2-14	3484-2-17	3484-2-18	3484-2-20	3484-2-21	3484-2-22	DUP-04 (3484-2-22)	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}	Soil Remediation Objective for Residential Exposure ^{c/}
Sample Depth, ft	0-1	0-1	0-1	0-1	0-1	0-5	0-5	0-5	0-5	0-5	0-5	0-5			
Sample Date	5/24/18	5/24/18	5/24/18	5/24/18	5/24/18	5/24/18	5/24/18	5/24/18	5/24/18	5/24/18	5/24/18	5/24/18			
Excavation Area(s) [ISGS Site No.(s)]															
Parameter															
Laboratory soil pH (s.u.)	8.76	8.52	8.86	8.71	8.57	8.75	8.95	8.51	8.38	8.47	8.6	8.58	6.25 - 9.0	---	---
VOCs (mg/kg)															
SVOCs, mg/kg															
Benzo(a)anthracene	<0.33	<0.33	<0.33	0.361	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.9 / 1.1 / 1.8	170	0.9
Benzo(a)pyrene	<0.09	<0.09	<0.09	0.331	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	0.09 / 1.3 / 2.1	17	0.09
Benzo(b)fluoranthene	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.9 / 1.5 / 2.1	170	0.9
Dibenz(a,h)anthracene	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	0.09 / 0.2 / 0.42	17	0.09
Total Metals, mg/kg															
Beryllium	0.5	0.7	<0.5	0.6	0.7	0.7	0.6	0.9	0.8	0.8	0.8	1	22	410	160
Chromium	14.3	16.3	13.1	16.2	19.8	21.3	16.5	23.1	24.2	19.6	21.3	22.3	21	690	230
Iron	12100	16200	17100	15500	18100	30800	20100	21500	18900	16200	16100	28000	15,000 / 15,900	---	---
Lead	54.4	14.5	15.3	15.6	16.2	17.6	12.8	15.1	13.4	12.2	12.2	14.7	107	700	400
Manganese	217	258	262	201	157	141	252	153	126	107	111	172	630 / 636	4,100	1600
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	0.89	0.1	10
TCLP Metals, mg/L													Class I Groundwater ^{d/}		
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	0.004		
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	0.1		
Iron	0.3	0.4	0.8	0.5	0.2	0.7	1.6	0.4	0.1	<0.1	1.7	2	5		
Lead	<0.005	<0.005	0.993	0.014	0.011	0.01	0.024	0.013	<0.005	<0.005	<0.005	<0.005	0.0075		
Manganese	1	2.6	3.1	4.9	2.8	<0.1	2	1.6	0.3	2.2	0.2	<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	0.002		
SPLP Metals, mg/L															
Beryllium	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.006	<0.004	<0.004	<0.004	0.009	0.006	0.004		
Chromium	0.072	0.099	0.023	0.073	0.057	0.121	0.187	0.081	0.094	0.076	0.254	0.184	0.1		
Iron	49.6	79.4	20.2	59.6	46	117	123	65.5	85.8	53.4	198	144	5		
Lead	0.034	0.066	0.188	0.048	0.122	0.065	0.082	0.132	0.045	0.024	0.115	0.076	0.0075		
Manganese	0.2	0.8	0.3	0.5	0.4	0.4	0.7	0.5	0.4	0.4	0.9	0.6	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	0.002		

--- - 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 the MSA County Value From the MAC Table as Applicable

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

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

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


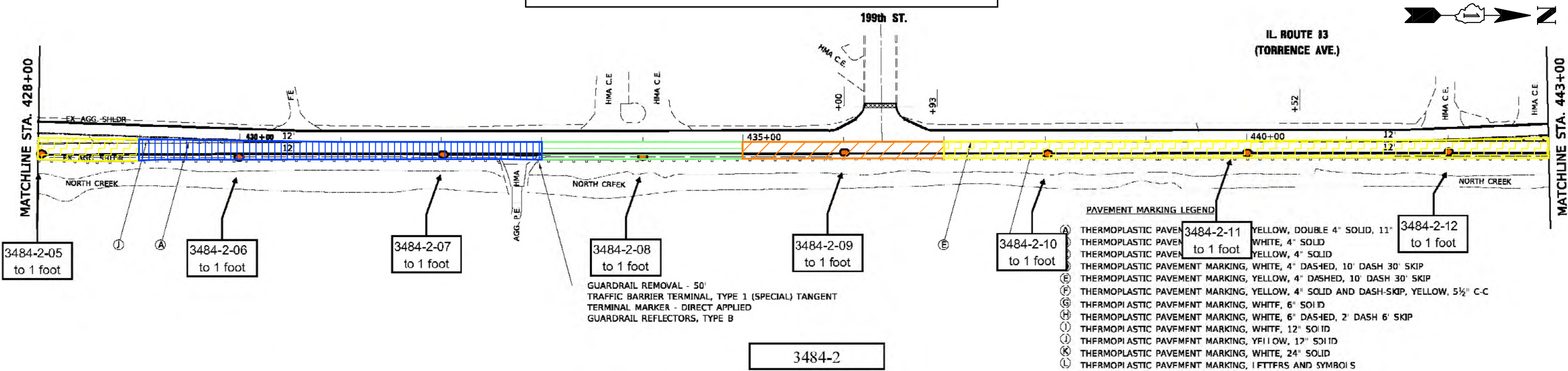
 Shaded values indicate concentration exceeds reference concentration

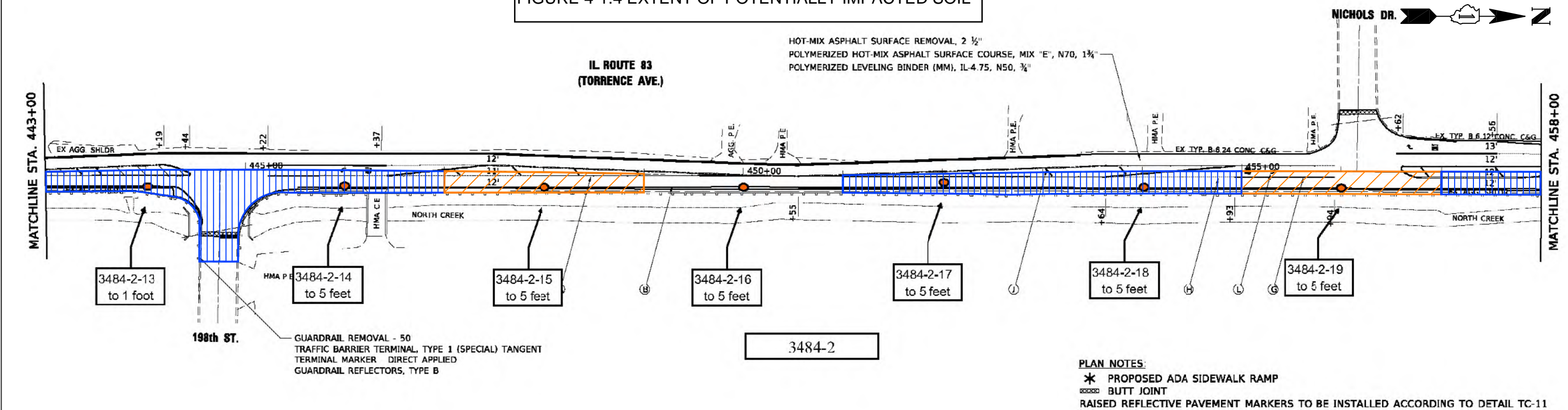
FIGURE 4-1.3 EXTENT OF POTENTIALLY IMPACTED SOIL



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.	

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN IL 83 (I-80 TO GLENWOOD DYER ROAD)	F.A.U. RTE.					SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			2937	(3076-1 & 3077) RS-1		COOK	6	3				
	PLOT SCALE =	CHECKED -	REVISED -			SCALE: 1" = 100'		SHEET NO. 1 OF 6 SHEETS		STA. 458+00 TO STA. 488+00		CONTRACT NO. NO 62C51			
	PLOT DATE =	DATE -	REVISED -					ILLINOIS							

FIGURE 4-1.4 EXTENT OF POTENTIALLY IMPACTED SOIL

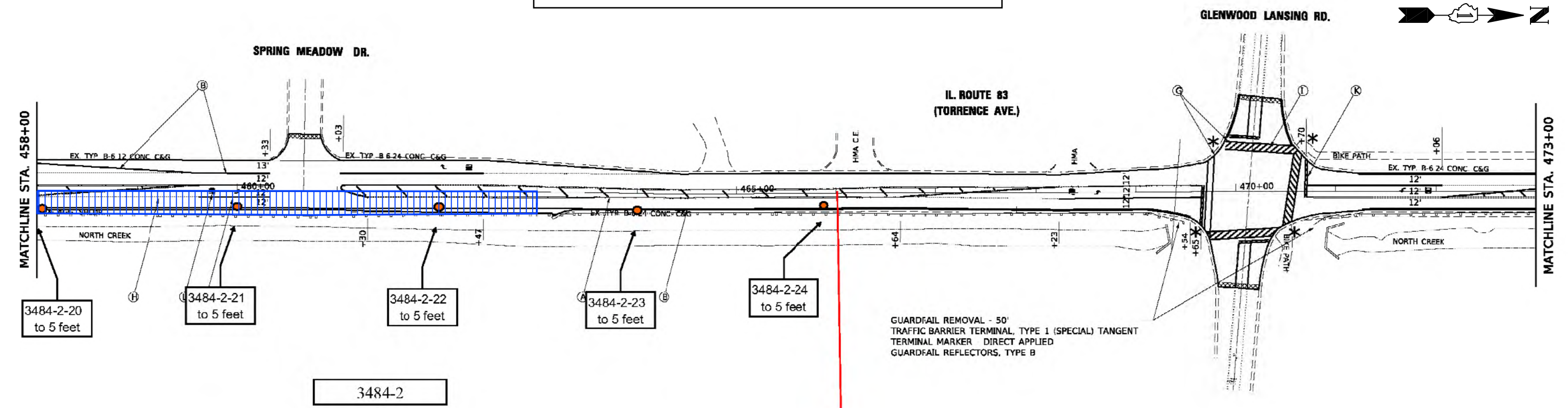


LEGEND

- 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.

FIGURE 4-1.5 EXTENT OF POTENTIALLY IMPACTED SOIL



FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN IL 83 (I-80 TO GLENWOOD DYER ROAD)					F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -							2937	(3076-1 & 3077) RS-1	COOK	6	5
	PLOT SCALE =	CHECKED -	REVISED -		CONTRACT NO. NO 62C51									
	PLOT DATE =	DATE -	REVISED -		ILLINOIS									
	SCALE: 1" = 100'				SHEET NO. 1 OF 6 SHEETS	STA. 458+00	TO STA. 488+00							



**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.

Project ID: Torrence Ave

Sample ID: 2-06 (0-1)

Sample No: 18-2892-006

Date Collected: 05/24/18

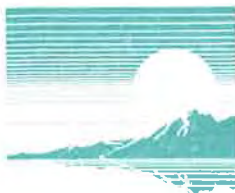
Time Collected: 10:10

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total				
Method: 2540B				
Analysis Date: 05/25/18 14:00				
Total Solids	81.71		%	
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 05/31/18				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	7.5	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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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IL ELAP / NELAC Accreditation # 100292

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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-06 (0-1)

Sample No: 18-2892-006

Date Collected: 05/24/18

Time Collected: 10:10

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/31/18				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/30/18		Preparation Date: 05/24/18		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	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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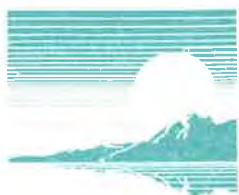
Time Collected: 10:10

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Preparation Method 3540C		
Analysis Date: 05/30/18		Preparation Date: 05/24/18		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	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	



**First
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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: Torrence Ave

Sample ID: 2-06 (0-1)

Sample No: 18-2892-006

Date Collected: 05/24/18

Time Collected: 10:10

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/30/18		Preparation Date: 05/24/18		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	

pH @ 25°C, 1:2

Method: 9045D 2004

Analysis Date: 05/29/18 11:25

pH @ 25°C, 1:2

8.76

Units

Total Metals

Method: 6010C

Preparation Method 3050B

Analysis Date: 05/31/18

Preparation Date: 05/25/18

Antimony	< 1.0	1.0	mg/kg
Arsenic	1.5	1.0	mg/kg
Barium	49.7	0.5	mg/kg
Beryllium	0.5	0.5	mg/kg
Cadmium	< 0.5	0.5	mg/kg
Calcium	72,100	50	mg/kg
Chromium	14.3	0.5	mg/kg
Cobalt	4.5	0.5	mg/kg
Copper	12.2	0.5	mg/kg
Iron	12,100	5.0	mg/kg
Lead	54.4	0.5	mg/kg
Magnesium	44,100	50	mg/kg
Manganese	217	0.5	mg/kg
Nickel	14.1	0.5	mg/kg
Potassium	970	50	mg/kg
Selenium	< 1.0	1.0	mg/kg
Silver	0.4	0.2	mg/kg
Sodium	2,680	50	mg/kg
Thallium	< 1.0	1.0	mg/kg
Vanadium	17.0	1.0	mg/kg
Zinc	68.1	1.0	mg/kg

Total Mercury

Method: 7471B

Analysis Date: 05/25/18

Mercury

< 0.05

0.05

mg/kg

TCLP Metals Method 1311

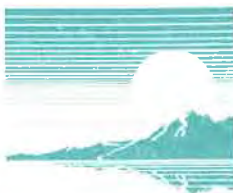
Method: 6010C

Preparation Method 3010A

Analysis Date: 06/01/18

Preparation Date: 05/30/18

Arsenic	< 0.010	0.010	mg/L
Barium	< 1.0	1.0	mg/L



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-06 (0-1)

Sample No: 18-2892-006

Date Collected: 05/24/18

Time Collected: 10:10

Date Received: 05/24/18

Date Reported: 06/06/18

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: 06/01/18		Preparation Date: 05/30/18		
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.3	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.0	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/31/18				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction Method: 1311				
Analysis Date: 05/30/18				
TCLP Extraction	Complete			
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 05/31/18		Preparation Date: 05/31/18		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.072	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.054	0.005	mg/L	
Iron	49.6	0.1	mg/L	
Lead	0.034	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	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-06 (0-1)

Sample No: 18-2892-006

Date Collected: 05/24/18

Time Collected: 10:10

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Mercury Method 1312	Method: 7470A			
Analysis Date: 05/31/18				
Mercury	< 0.0005	0.0005	mg/L	

SPLP Extraction	Method: 1312
Analysis Date: 05/30/18	
SPLP Metals Extraction	Complete

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.2	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	100.7	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	103.4	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	86.6	45	112
8270C	2-Fluorophenol (Surr)	%R:	75.4	41	84
8270C	d14-Terphenyl (Surr)	%R:	89	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	87.6	35	105
8270C	Phenol-d5 (surr)	%R:	77.3	50	100



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-07 (0-1)

Sample No: 18-2892-007

Date Collected: 05/24/18

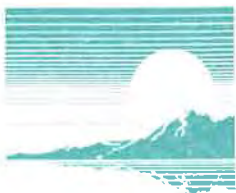
Time Collected: 10:13

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total				
Method: 2540B				
Analysis Date: 05/25/18 14:00				
Total Solids	84.29		%	
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 05/31/18				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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: Torrence Ave

Sample ID: 2-07 (0-1)

Sample No: 18-2892-007

Date Collected: 05/24/18

Time Collected: 10:13

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/31/18				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C	Preparation Method 3540C	
Analysis Date: 05/25/18			Preparation Date: 05/24/18	
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	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: Torrence Ave

Sample ID: 2-07 (0-1)

Sample No: 18-2892-007

Date Collected: 05/24/18

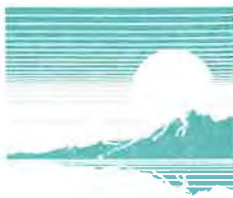
Time Collected: 10:13

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Preparation Method 3540C		
Analysis Date: 05/25/18		Preparation Date: 05/24/18		
Method: 8270C				
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	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: Torrence Ave

Sample ID: 2-07 (0-1)

Sample No: 18-2892-007

Date Collected: 05/24/18

Time Collected: 10:13

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/25/18		Preparation Date: 05/24/18		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	

pH @ 25°C, 1:2

Method: 9045D 2004

Analysis Date: 05/29/18 11:25

pH @ 25°C, 1:2

8.86

Units

Total Metals

Method: 6010C

Preparation Method 3050B

Analysis Date: 05/31/18

Preparation Date: 05/25/18

Antimony	< 1.0	1.0	mg/kg
Arsenic	5.7	1.0	mg/kg
Barium	39.1	0.5	mg/kg
Beryllium	< 0.5	0.5	mg/kg
Cadmium	< 0.5	0.5	mg/kg
Calcium	31,600	50	mg/kg
Chromium	13.1	0.5	mg/kg
Cobalt	7.5	0.5	mg/kg
Copper	17.5	0.5	mg/kg
Iron	17,100	5.0	mg/kg
Lead	15.3	0.5	mg/kg
Magnesium	15,000	50	mg/kg
Manganese	262	0.5	mg/kg
Nickel	18.6	0.5	mg/kg
Potassium	1,190	50	mg/kg
Selenium	< 1.0	1.0	mg/kg
Silver	0.5	0.2	mg/kg
Sodium	2,340	50	mg/kg
Thallium	< 1.0	1.0	mg/kg
Vanadium	19.4	1.0	mg/kg
Zinc	43.8	1.0	mg/kg

Total Mercury

Method: 7471B

Analysis Date: 05/25/18

Mercury

< 0.05

0.05

mg/kg

TCLP Metals Method 1311

Method: 6010C

Preparation Method 3010A

Analysis Date: 06/01/18

Preparation Date: 05/30/18

Arsenic	0.012	0.010	mg/L
Barium	< 1.0	1.0	mg/L



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-07 (0-1)

Sample No: 18-2892-007

Date Collected: 05/24/18

Time Collected: 10:13

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

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: 06/01/18 Preparation Date: 05/30/18				
Beryllium	< 1.00	1.0	mg/L	
Cadmium	0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.8	0.1	mg/L	
Lead	0.993	0.005	mg/L	
Manganese	3.1	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	0.8	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/31/18				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction Method: 1311				
Analysis Date: 05/30/18				
TCLP Extraction	Complete			
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 05/31/18 Preparation Date: 05/31/18				
Arsenic	0.013	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.023	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.045	0.005	mg/L	
Iron	20.2	0.1	mg/L	
Lead	0.188	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.2	0.1	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-07 (0-1)

Sample No: 18-2892-007

Date Collected: 05/24/18

Time Collected: 10:13

Date Received: 05/24/18

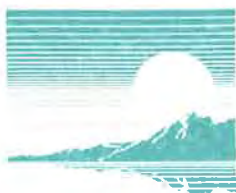
Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Mercury Method 1312	Method: 7470A			
Analysis Date: 05/31/18				
Mercury	< 0.0005	0.0005	mg/L	

SPLP Extraction	Method: 1312
Analysis Date: 05/30/18	
SPLP Metals Extraction	Complete

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.5	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	91.4	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	77.3	45	112
8270C	2-Fluorophenol (Surr)	%R:	64.6	41	84
8270C	d14-Terphenyl (Surr)	%R:	81.8	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	72	35	105
8270C	Phenol-d5 (surr)	%R:	66.6	50	100



**First
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IL ELAP / NELAC Accreditation # 100292

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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-08 (0-1)

Sample No: 18-2892-008

Date Collected: 05/24/18

Time Collected: 10:17

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total				
Method: 2540B				
Analysis Date: 05/25/18 14:00				
Total Solids	80.99		%	
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 05/31/18				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	13.1	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	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	



**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.

Project ID: Torrence Ave

Sample ID: 2-08 (0-1)

Sample No: 18-2892-008

Date Collected: 05/24/18

Time Collected: 10:17

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 05/31/18				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 05/25/18		Preparation Date: 05/24/18		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	361	330	ug/kg	
Benzo(a)pyrene	331	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	399	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: Torrence Ave

Sample ID: 2-08 (0-1)

Sample No: 18-2892-008

Date Collected: 05/24/18

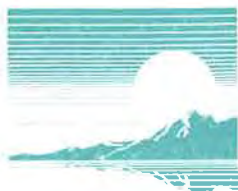
Time Collected: 10:17

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/25/18		Preparation Date: 05/24/18		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	824	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	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	629	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	792	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: Torrence Ave

Sample ID: 2-08 (0-1)

Sample No: 18-2892-008

Date Collected: 05/24/18

Time Collected: 10:17

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/25/18		Preparation Date: 05/24/18		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	

pH @ 25°C, 1:2

Method: 9045D 2004

Analysis Date: 05/29/18 11:25

pH @ 25°C, 1:2

8.71

Units

Total Metals

Method: 6010C

Preparation Method 3050B

Analysis Date: 05/31/18

Preparation Date: 05/25/18

Antimony	< 1.0	1.0	mg/kg
Arsenic	2.9	1.0	mg/kg
Barium	57.8	0.5	mg/kg
Beryllium	0.6	0.5	mg/kg
Cadmium	< 0.5	0.5	mg/kg
Calcium	12,300	50	mg/kg
Chromium	16.2	0.5	mg/kg
Cobalt	8.3	0.5	mg/kg
Copper	15.7	0.5	mg/kg
Iron	15,500	5.0	mg/kg
Lead	15.6	0.5	mg/kg
Magnesium	7,660	50	mg/kg
Manganese	201	0.5	mg/kg
Nickel	21.9	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	2,580	50	mg/kg
Thallium	< 1.0	1.0	mg/kg
Vanadium	19.7	1.0	mg/kg
Zinc	46.6	1.0	mg/kg

Total Mercury

Method: 7471B

Analysis Date: 05/25/18

Mercury

< 0.05

0.05

mg/kg

TCLP Metals Method 1311

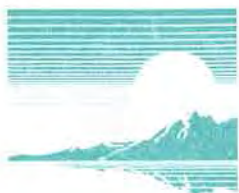
Method: 6010C

Preparation Method 3010A

Analysis Date: 06/01/18

Preparation Date: 05/30/18

Arsenic	< 0.010	0.010	mg/L
Barium	< 1.0	1.0	mg/L



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-08 (0-1)

Sample No: 18-2892-008

Date Collected: 05/24/18

Time Collected: 10:17

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 06/01/18		Preparation Method 3010A		
		Preparation Date: 05/30/18		
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.5	0.1	mg/L	
Lead	0.014	0.005	mg/L	
Manganese	4.9	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 05/31/18				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction		Method: 1311		
Analysis Date: 05/30/18				
TCLP Extraction	Complete			
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 05/31/18		Preparation Method 3010A		
		Preparation Date: 05/31/18		
Arsenic	0.016	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.073	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.082	0.005	mg/L	
Iron	59.6	0.1	mg/L	
Lead	0.048	0.005	mg/L	
Manganese	0.5	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.2	0.1	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-08 (0-1)

Sample No: 18-2892-008

Date Collected: 05/24/18

Time Collected: 10:17

Date Received: 05/24/18

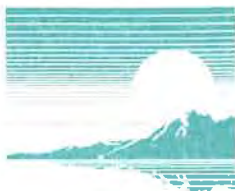
Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Mercury Method 1312	Method: 7470A			
Analysis Date: 05/31/18				
Mercury	< 0.0005	0.0005	mg/L	

SPLP Extraction	Method: 1312
Analysis Date: 05/30/18	
SPLP Metals Extraction	Complete

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.8	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	100.5	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	100.6	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	83.9	45	112
8270C	2-Fluorophenol (Surr)	%R:	72.2	41	84
8270C	d14-Terphenyl (Surr)	%R:	92.5	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	72.8	35	105
8270C	Phenol-d5 (surr)	%R:	74.4	50	100



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-13 (0-1)

Sample No: 18-2892-013

Date Collected: 05/24/18

Time Collected: 10:37

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total				
Method: 2540B				
Analysis Date: 05/25/18 14:00				
Total Solids	82.58		%	
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 05/31/18				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	9.7	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-13 (0-1)

Sample No: 18-2892-013

Date Collected: 05/24/18

Time Collected: 10:37

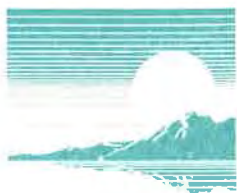
Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/31/18				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	

Semi-Volatile Compounds		Method: 8270C	Preparation Method 3540C	
Analysis Date: 05/29/18			Preparation Date: 05/24/18	
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	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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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: Torrence Ave

Sample ID: 2-13 (0-1)

Sample No: 18-2892-013

Date Collected: 05/24/18

Time Collected: 10:37

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/29/18		Preparation Date: 05/24/18		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	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: Torrence Ave

Sample ID: 2-13 (0-1)

Sample No: 18-2892-013

Date Collected: 05/24/18

Time Collected: 10:37

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/29/18		Preparation Date: 05/24/18		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	

pH @ 25°C, 1:2

Method: 9045D 2004

Analysis Date: 05/29/18 11:25

pH @ 25°C, 1:2

8.57

Units

Total Metals

Method: 6010C

Preparation Method 3050B

Analysis Date: 05/31/18

Preparation Date: 05/25/18

Antimony	< 1.0	1.0	mg/kg
Arsenic	3.0	1.0	mg/kg
Barium	60.6	0.5	mg/kg
Beryllium	0.7	0.5	mg/kg
Cadmium	< 0.5	0.5	mg/kg
Calcium	18,500	50	mg/kg
Chromium	19.8	0.5	mg/kg
Cobalt	8.7	0.5	mg/kg
Copper	17.7	0.5	mg/kg
Iron	18,100	5.0	mg/kg
Lead	16.2	0.5	mg/kg
Magnesium	12,700	50	mg/kg
Manganese	157	0.5	mg/kg
Nickel	23.9	0.5	mg/kg
Potassium	1,470	50	mg/kg
Selenium	< 1.0	1.0	mg/kg
Silver	0.5	0.2	mg/kg
Sodium	2,580	50	mg/kg
Thallium	< 1.0	1.0	mg/kg
Vanadium	23.4	1.0	mg/kg
Zinc	55.6	1.0	mg/kg

Total Mercury

Method: 7471B

Analysis Date: 05/29/18

Mercury

< 0.05

0.05

mg/kg

TCLP Metals Method 1311

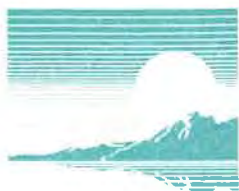
Method: 6010C

Preparation Method 3010A

Analysis Date: 06/01/18

Preparation Date: 05/30/18

Arsenic	< 0.010	0.010	mg/L
Barium	< 1.0	1.0	mg/L



**First
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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: Torrence Ave

Sample ID: 2-13 (0-1)

Sample No: 18-2892-013

Date Collected: 05/24/18

Time Collected: 10:37

Date Received: 05/24/18

Date Reported: 06/06/18

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: 06/01/18		Preparation Date: 05/30/18		
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.2	0.1	mg/L	
Lead	0.011	0.005	mg/L	
Manganese	2.8	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/31/18				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction Method: 1311				
Analysis Date: 05/30/18				
TCLP Extraction	Complete			
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 05/31/18		Preparation Date: 05/31/18		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.057	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.070	0.005	mg/L	
Iron	46.0	0.1	mg/L	
Lead	0.122	0.005	mg/L	
Manganese	0.4	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.2	0.1	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-13 (0-1)

Sample No: 18-2892-013

Date Collected: 05/24/18

Time Collected: 10:37

Date Received: 05/24/18

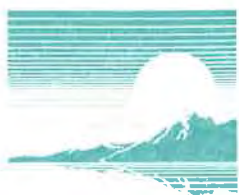
Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Mercury Method 1312	Method: 7470A			
Analysis Date: 05/31/18				
Mercury	< 0.0005	0.0005	mg/L	

SPLP Extraction	Method: 1312
Analysis Date: 05/30/18	
SPLP Metals Extraction	Complete

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103.6	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	91.3	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	76.8	45	112
8270C	2-Fluorophenol (Surr)	%R:	66.6	41	84
8270C	d14-Terphenyl (Surr)	%R:	79.4	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	59.9	35	105
8270C	Phenol-d5 (surr)	%R:	68.3	50	100



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-14 (0-5)

Sample No: 18-2892-014

Date Collected: 05/24/18

Time Collected: 10:35

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total	Method: 2540B			
Analysis Date: 05/25/18 14:00				
Total Solids	79.59		%	

Volatile Organic Compounds **Method: 5035A/8260B**
Analysis Date: 05/31/18

Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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: Torrence Ave

Sample ID: 2-14 (0-5)

Sample No: 18-2892-014

Date Collected: 05/24/18

Time Collected: 10:35

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Results are Reported on a dry weight basis.				
Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/31/18				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	

Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C	
Analysis Date: 05/29/18				Preparation Date: 05/24/18	
Acenaphthene	< 330	330	ug/kg		
Acenaphthylene	< 330	330	ug/kg		
Anthracene	< 330	330	ug/kg		
Benztidine	< 330	330	ug/kg		
Benzo(a)anthracene	< 330	330	ug/kg		
Benzo(a)pyrene	< 90	90	ug/kg		
Benzo(b)fluoranthene	< 330	330	ug/kg		
Benzo(k)fluoranthene	< 330	330	ug/kg		
Benzo(ghi)perylene	< 330	330	ug/kg		
Benzoic acid	< 330	330	ug/kg		
Benzyl alcohol	< 330	330	ug/kg		
bis(2-Chloroethoxy)methane	< 330	330	ug/kg		
bis(2-Chloroethyl)ether	< 330	330	ug/kg		
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg		
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg		
4-Bromophenyl phenyl ether	< 330	330	ug/kg		
Butyl benzyl phthalate	< 330	330	ug/kg		
Carbazole	< 330	330	ug/kg		
4-Chloroaniline	< 330	330	ug/kg		
4-Chloro-3-methylphenol	< 330	330	ug/kg		
2-Chloronaphthalene	< 330	330	ug/kg		
2-Chlorophenol	< 330	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: Torrence Ave

Sample ID: 2-14 (0-5)

Sample No: 18-2892-014

Date Collected: 05/24/18

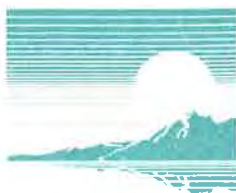
Time Collected: 10:35

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Preparation Method 3540C		
Analysis Date: 05/29/18		Preparation Date: 05/24/18		
Method: 8270C				
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	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: Torrence Ave

Sample ID: 2-14 (0-5)

Sample No: 18-2892-014

Date Collected: 05/24/18

Time Collected: 10:35

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/29/18		Preparation Date: 05/24/18		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	

pH @ 25°C, 1:2

Method: 9045D 2004

Analysis Date: 05/29/18 11:25

pH @ 25°C, 1:2

8.75

Units

Total Metals

Method: 6010C

Preparation Method 3050B

Analysis Date: 05/31/18

Preparation Date: 05/25/18

Antimony	< 1.0	1.0	mg/kg
Arsenic	10.0	1.0	mg/kg
Barium	50.7	0.5	mg/kg
Beryllium	0.7	0.5	mg/kg
Cadmium	< 0.5	0.5	mg/kg
Calcium	2,210	50	mg/kg
Chromium	21.3	0.5	mg/kg
Cobalt	12.5	0.5	mg/kg
Copper	18.4	0.5	mg/kg
Iron	30,800	5.0	mg/kg
Lead	17.6	0.5	mg/kg
Magnesium	4,310	50	mg/kg
Manganese	141	0.5	mg/kg
Nickel	29.2	0.5	mg/kg
Potassium	1,280	50	mg/kg
Selenium	< 1.0	1.0	mg/kg
Silver	0.8	0.2	mg/kg
Sodium	3,330	50	mg/kg
Thallium	< 1.0	1.0	mg/kg
Vanadium	38.1	1.0	mg/kg
Zinc	54.1	1.0	mg/kg

Total Mercury

Method: 7471B

Analysis Date: 05/29/18

Mercury

< 0.05

0.05

mg/kg

TCLP Metals Method 1311

Method: 6010C

Preparation Method 3010A

Analysis Date: 06/01/18

Preparation Date: 05/30/18

Arsenic	< 0.010	0.010	mg/L
Barium	< 1.0	1.0	mg/L



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-14 (0-5)

Sample No: 18-2892-014

Date Collected: 05/24/18

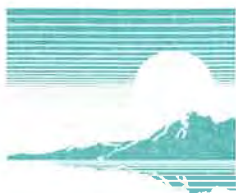
Time Collected: 10:35

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 06/01/18		Preparation Method 3010A		
		Preparation Date: 05/30/18		
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.7	0.1	mg/L	
Lead	0.010	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 05/31/18				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction		Method: 1311		
Analysis Date: 05/30/18				
TCLP Extraction	Complete			
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 05/31/18		Preparation Method 3010A		
		Preparation Date: 05/31/18		
Arsenic	0.028	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.121	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.090	0.005	mg/L	
Iron	117	0.1	mg/L	
Lead	0.065	0.005	mg/L	
Manganese	0.4	0.1	mg/L	
Nickel	0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.3	0.1	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-14 (0-5)

Sample No: 18-2892-014

Date Collected: 05/24/18

Time Collected: 10:35

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Mercury Method 1312	Method: 7470A			
Analysis Date: 05/31/18				
Mercury	< 0.0005	0.0005	mg/L	

SPLP Extraction	Method: 1312
Analysis Date: 05/30/18	
SPLP Metals Extraction	Complete

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.4	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	100.2	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	87.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	64.4	45	112
8270C	2-Fluorophenol (Surr)	%R:	59.9	41	84
8270C	d14-Terphenyl (Surr)	%R:	78.1	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	68.9	35	105
8270C	Phenol-d5 (surr)	%R:	62.5	50	100



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-17 (0-5)

Sample No: 18-2892-017

Date Collected: 05/24/18

Time Collected: 10:45

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 05/25/18 14:00				
Total Solids	79.66		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 05/31/18				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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	



**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.

Project ID: Torrence Ave

Sample ID: 2-17 (0-5)

Sample No: 18-2892-017

Date Collected: 05/24/18

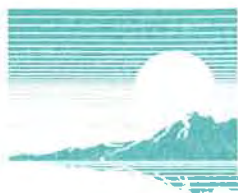
Time Collected: 10:45

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/31/18				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C	Preparation Method 3540C	
Analysis Date: 05/29/18			Preparation Date: 05/24/18	
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	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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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: Torrence Ave

Sample ID: 2-17 (0-5)

Sample No: 18-2892-017

Date Collected: 05/24/18

Time Collected: 10:45

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/29/18		Preparation Date: 05/24/18		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	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: Torrence Ave

Sample ID: 2-17 (0-5)

Sample No: 18-2892-017

Date Collected: 05/24/18

Time Collected: 10:45

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/29/18		Preparation Date: 05/24/18		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	

pH @ 25°C, 1:2

Method: 9045D 2004

Analysis Date: 05/29/18 11:25

pH @ 25°C, 1:2

8.95

Units

Total Metals

Method: 6010C

Preparation Method 3050B

Analysis Date: 05/31/18

Preparation Date: 05/25/18

Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.2	1.0	mg/kg	
Barium	46.5	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	46,800	50	mg/kg	
Chromium	16.5	0.5	mg/kg	
Cobalt	8.5	0.5	mg/kg	
Copper	17.4	0.5	mg/kg	
Iron	20,100	5.0	mg/kg	
Lead	12.8	0.5	mg/kg	
Magnesium	17,400	50	mg/kg	
Manganese	252	0.5	mg/kg	
Nickel	22.2	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	2,050	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	22.3	1.0	mg/kg	
Zinc	44.7	1.0	mg/kg	

Total Mercury

Method: 7471B

Analysis Date: 05/29/18

Mercury

< 0.05

0.05

mg/kg

TCLP Metals Method 1311

Method: 6010C

Preparation Method 3010A

Analysis Date: 06/01/18

Preparation Date: 05/30/18

Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-17 (0-5)

Sample No: 18-2892-017

Date Collected: 05/24/18

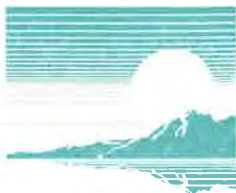
Time Collected: 10:45

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 06/01/18		Preparation Method 3010A		
		Preparation Date: 05/30/18		
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	1.6	0.1	mg/L	
Lead	0.024	0.005	mg/L	
Manganese	2.0	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	0.011	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 05/31/18				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction		Method: 1311		
Analysis Date: 05/30/18				
TCLP Extraction	Complete			
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 06/01/18		Preparation Method 3010A		
		Preparation Date: 05/31/18		
Arsenic	0.020	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.006	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.187	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.127	0.005	mg/L	
Iron	123	0.1	mg/L	
Lead	0.082	0.005	mg/L	
Manganese	0.7	0.1	mg/L	
Nickel	0.2	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.5	0.1	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-17 (0-5)

Sample No: 18-2892-017

Date Collected: 05/24/18

Time Collected: 10:45

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Mercury Method 1312	Method: 7470A			
Analysis Date: 05/31/18				
Mercury	< 0.0005	0.0005	mg/L	

SPLP Extraction	Method: 1312
Analysis Date: 05/30/18	
SPLP Metals Extraction	Complete

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	101.2	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	102.4	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104.2	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	89	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	67.2	45	112
8270C	2-Fluorophenol (Surr)	%R:	60.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	77.7	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	72.6	35	105
8270C	Phenol-d5 (surr)	%R:	64.6	50	100



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-18 (0-5)

Sample No: 18-2892-018

Date Collected: 05/24/18

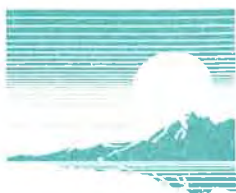
Time Collected: 10:48

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total				
Method: 2540B				
Analysis Date: 05/25/18 14:00				
Total Solids	72.01		%	
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 05/31/18				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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: Torrence Ave

Sample ID: 2-18 (0-5)

Sample No: 18-2892-018

Date Collected: 05/24/18

Time Collected: 10:48

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/31/18				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C	Preparation Method 3540C	
Analysis Date: 05/29/18			Preparation Date: 05/24/18	
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	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: Torrence Ave

Sample ID: 2-18 (0-5)

Sample No: 18-2892-018

Date Collected: 05/24/18

Time Collected: 10:48

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		
Analysis Date: 05/29/18		Preparation Method 3540C		
		Preparation Date: 05/24/18		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	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: Torrence Ave

Sample ID: 2-18 (0-5)

Sample No: 18-2892-018

Date Collected: 05/24/18

Time Collected: 10:48

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/29/18		Preparation Date: 05/24/18		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	

pH @ 25°C, 1:2

Method: 9045D 2004

Analysis Date: 05/29/18 11:25

pH @ 25°C, 1:2

8.51

Units

Total Metals

Method: 6010C

Preparation Method 3050B

Analysis Date: 05/31/18

Preparation Date: 05/25/18

Antimony	< 1.0	1.0	mg/kg
Arsenic	4.4	1.0	mg/kg
Barium	83.7	0.5	mg/kg
Beryllium	0.9	0.5	mg/kg
Cadmium	< 0.5	0.5	mg/kg
Calcium	7,750	50	mg/kg
Chromium	23.1	0.5	mg/kg
Cobalt	9.9	0.5	mg/kg
Copper	31.4	0.5	mg/kg
Iron	21,500	5.0	mg/kg
Lead	15.1	0.5	mg/kg
Magnesium	6,260	50	mg/kg
Manganese	153	0.5	mg/kg
Nickel	32.4	0.5	mg/kg
Potassium	1,550	50	mg/kg
Selenium	< 1.0	1.0	mg/kg
Silver	0.6	0.2	mg/kg
Sodium	3,580	50	mg/kg
Thallium	< 1.0	1.0	mg/kg
Vanadium	28.2	1.0	mg/kg
Zinc	53.2	1.0	mg/kg

Total Mercury

Method: 7471B

Analysis Date: 05/29/18

Mercury

< 0.05

0.05

mg/kg

TCLP Metals Method 1311

Method: 6010C

Preparation Method 3010A

Analysis Date: 06/01/18

Preparation Date: 05/30/18

Arsenic	< 0.010	0.010	mg/L
Barium	< 1.0	1.0	mg/L



**First
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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: Torrence Ave

Sample ID: 2-18 (0-5)

Sample No: 18-2892-018

Date Collected: 05/24/18

Time Collected: 10:48

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 06/01/18		Preparation Method 3010A		
		Preparation Date: 05/30/18		
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.4	0.1	mg/L	
Lead	0.013	0.005	mg/L	
Manganese	1.6	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 05/31/18				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction		Method: 1311		
Analysis Date: 05/30/18				
TCLP Extraction	Complete			
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 06/01/18		Preparation Method 3010A		
		Preparation Date: 05/31/18		
Arsenic	0.017	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.081	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.104	0.005	mg/L	
Iron	65.5	0.1	mg/L	
Lead	0.132	0.005	mg/L	
Manganese	0.5	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.3	0.1	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-18 (0-5)

Sample No: 18-2892-018

Date Collected: 05/24/18

Time Collected: 10:48

Date Received: 05/24/18

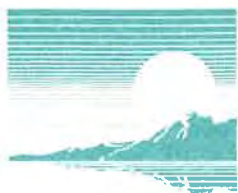
Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Mercury Method 1312	Method: 7470A			
Analysis Date: 05/31/18				
Mercury	< 0.0005	0.0005	mg/L	

SPLP Extraction	Method: 1312
Analysis Date: 05/30/18	
SPLP Metals Extraction	Complete

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.4	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.8	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	99.7	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	89.7	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	69.2	45	112
8270C	2-Fluorophenol (Surr)	%R:	60.2	41	84
8270C	d14-Terphenyl (Surr)	%R:	79.4	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	53.3	35	105
8270C	Phenol-d5 (surr)	%R:	65	50	100



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-20 (0-5)

Sample No: 18-2892-020

Date Collected: 05/24/18

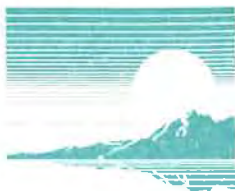
Time Collected: 10:55

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total				
Analysis Date: 05/25/18 14:00		Method: 2540B		
Total Solids	77.97		%	
Volatile Organic Compounds				
Analysis Date: 05/31/18		Method: 5035A/8260B		
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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: Torrence Ave

Sample ID: 2-20 (0-5)

Sample No: 18-2892-020

Date Collected: 05/24/18

Time Collected: 10:55

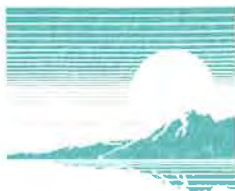
Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/31/18				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	

Semi-Volatile Compounds		Method: 8270C	Preparation Method 3540C	
Analysis Date: 05/29/18			Preparation Date: 05/24/18	
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	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: Torrence Ave

Sample ID: 2-20 (0-5)

Sample No: 18-2892-020

Date Collected: 05/24/18

Time Collected: 10:55

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Preparation Method 3540C		
Analysis Date: 05/29/18		Preparation Date: 05/24/18		
Method: 8270C				
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	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: Torrence Ave

Sample ID: 2-20 (0-5)

Sample No: 18-2892-020

Date Collected: 05/24/18

Time Collected: 10:55

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 05/29/18		Preparation Date: 05/24/18		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 05/29/18 11:25				
pH @ 25°C, 1:2	8.38		Units	
Total Metals				
Method: 6010C		Preparation Method 3050B		
Analysis Date: 05/31/18		Preparation Date: 05/25/18		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.2	1.0	mg/kg	
Barium	56.8	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	2,770	50	mg/kg	
Chromium	24.2	0.5	mg/kg	
Cobalt	10.1	0.5	mg/kg	
Copper	17.3	0.5	mg/kg	
Iron	18,900	5.0	mg/kg	
Lead	13.4	0.5	mg/kg	
Magnesium	4,570	50	mg/kg	
Manganese	126	0.5	mg/kg	
Nickel	29.3	0.5	mg/kg	
Potassium	1,540	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	2,990	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	25.2	1.0	mg/kg	
Zinc	57.5	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 05/29/18				
Mercury	< 0.05	0.05	mg/kg	
TCLP Metals Method 1311				
Method: 6010C		Preparation Method 3010A		
Analysis Date: 06/01/18		Preparation Date: 05/30/18		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-20 (0-5)

Sample No: 18-2892-020

Date Collected: 05/24/18

Time Collected: 10:55

Date Received: 05/24/18

Date Reported: 06/06/18

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: 06/01/18		Preparation Date: 05/30/18		
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/31/18				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction Method: 1311				
Analysis Date: 05/30/18				
TCLP Extraction	Complete			
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 05/31/18		Preparation Date: 05/31/18		
Arsenic	0.014	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.094	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.055	0.005	mg/L	
Iron	85.8	0.1	mg/L	
Lead	0.045	0.005	mg/L	
Manganese	0.4	0.1	mg/L	
Nickel	0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.2	0.1	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-20 (0-5)

Sample No: 18-2892-020

Date Collected: 05/24/18

Time Collected: 10:55

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Mercury Method 1312	Method: 7470A			
Analysis Date: 05/31/18				
Mercury	< 0.0005	0.0005	mg/L	

SPLP Extraction	Method: 1312
Analysis Date: 05/30/18	
SPLP Metals Extraction	Complete

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.8	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.6	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	99.6	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	88.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	65.6	45	112
8270C	2-Fluorophenol (Surr)	%R:	63.8	41	84
8270C	d14-Terphenyl (Surr)	%R:	76.7	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	72.8	35	105
8270C	Phenol-d5 (surr)	%R:	68.6	50	100



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-21 (0-5)

Sample No: 18-2892-021

Date Collected: 05/24/18

Time Collected: 10:58

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total				
Method: 2540B				
Analysis Date: 05/25/18 14:00				
Total Solids	76.81		%	
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 05/31/18				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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: Torrence Ave

Sample ID: 2-21 (0-5)

Sample No: 18-2892-021

Date Collected: 05/24/18

Time Collected: 10:58

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/31/18				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C	Preparation Method 3540C	
Analysis Date: 05/30/18		Preparation Date: 05/29/18		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	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	



**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.

Project ID: Torrence Ave

Sample ID: 2-21 (0-5)

Sample No: 18-2892-021

Date Collected: 05/24/18

Time Collected: 10:58

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		
Analysis Date: 05/30/18		Preparation Method 3540C		
		Preparation Date: 05/29/18		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	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: Torrence Ave

Sample ID: 2-21 (0-5)

Sample No: 18-2892-021

Date Collected: 05/24/18

Time Collected: 10:58

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/30/18		Preparation Date: 05/29/18		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	

pH @ 25°C, 1:2

Method: 9045D 2004

Analysis Date: 05/29/18 11:25

pH @ 25°C, 1:2

8.47

Units

Total Metals

Method: 6010C

Preparation Method 3050B

Analysis Date: 05/30/18

Preparation Date: 05/25/18

Antimony	< 1.0	1.0	mg/kg
Arsenic	2.1	1.0	mg/kg
Barium	56.3	0.5	mg/kg
Beryllium	0.8	0.5	mg/kg
Cadmium	< 0.5	0.5	mg/kg
Calcium	2,550	50	mg/kg
Chromium	19.6	0.5	mg/kg
Cobalt	8.8	0.5	mg/kg
Copper	17.0	0.5	mg/kg
Iron	16,200	5.0	mg/kg
Lead	12.2	0.5	mg/kg
Magnesium	3,950	50	mg/kg
Manganese	107	0.5	mg/kg
Nickel	26.1	0.5	mg/kg
Potassium	2,790	50	mg/kg
Selenium	< 1.0	1.0	mg/kg
Silver	< 0.2	0.2	mg/kg
Sodium	2,770	50	mg/kg
Thallium	< 1.0	1.0	mg/kg
Vanadium	23.3	1.0	mg/kg
Zinc	44.7	1.0	mg/kg

Total Mercury

Method: 7471B

Analysis Date: 05/29/18

Mercury

< 0.05

0.05

mg/kg

TCLP Metals Method 1311

Method: 6010C

Preparation Method 3010A

Analysis Date: 06/01/18

Preparation Date: 05/30/18

Arsenic	< 0.010	0.010	mg/L
Barium	< 1.0	1.0	mg/L



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Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-21 (0-5)

Sample No: 18-2892-021

Date Collected: 05/24/18

Time Collected: 10:58

Date Received: 05/24/18

Date Reported: 06/06/18

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: 06/01/18		Preparation Date: 05/30/18		
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	2.2	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: 06/01/18				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction Method: 1311				
Analysis Date: 05/30/18				
TCLP Extraction	Complete			
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 06/01/18		Preparation Date: 05/31/18		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.076	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.041	0.005	mg/L	
Iron	53.4	0.1	mg/L	
Lead	0.024	0.005	mg/L	
Manganese	0.4	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.2	0.1	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-21 (0-5)

Sample No: 18-2892-021

Date Collected: 05/24/18

Time Collected: 10:58

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Mercury Method 1312	Method: 7470A			
Analysis Date: 05/31/18				
Mercury	< 0.0005	0.0005	mg/L	

SPLP Extraction **Method: 1312**

Analysis Date: 05/30/18

SPLP Metals Extraction

Complete

Sample QC Summary: Surrogate Recovery

Method	Analyte	QC Result	%R Limits	
			Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 98.8	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 99.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 102.7	77	120



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-22 (0-5)

Sample No: 18-2892-022

Date Collected: 05/24/18

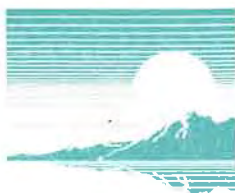
Time Collected: 11:00

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 05/25/18 14:00				
Total Solids	75.17		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 05/31/18				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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: Torrence Ave

Sample ID: 2-22 (0-5)

Sample No: 18-2892-022

Date Collected: 05/24/18

Time Collected: 11:00

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/31/18				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C	Preparation Method 3540C	
Analysis Date: 05/30/18			Preparation Date: 05/29/18	
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	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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Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-22 (0-5)

Sample No: 18-2892-022

Date Collected: 05/24/18

Time Collected: 11:00

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		
Analysis Date: 05/30/18		Preparation Method 3540C		
		Preparation Date: 05/29/18		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylanthracene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	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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Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-22 (0-5)

Sample No: 18-2892-022

Date Collected: 05/24/18

Time Collected: 11:00

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds Analysis Date: 05/30/18	Method: 8270C	Preparation Method 3540C Preparation Date: 05/29/18		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	

pH @ 25°C, 1:2

Analysis Date: 05/29/18 11:25

Method: 9045D 2004

pH @ 25°C, 1:2

8.60

Units

Total Metals
Analysis Date: 05/30/18

Method: 6010C

Preparation Method 3050B
Preparation Date: 05/25/18

Antimony	< 1.0	1.0	mg/kg
Arsenic	1.9	1.0	mg/kg
Barium	62.2	0.5	mg/kg
Beryllium	0.8	0.5	mg/kg
Cadmium	< 0.5	0.5	mg/kg
Calcium	2,490	50	mg/kg
Chromium	21.3	0.5	mg/kg
Cobalt	8.9	0.5	mg/kg
Copper	15.4	0.5	mg/kg
Iron	16,100	5.0	mg/kg
Lead	12.2	0.5	mg/kg
Magnesium	4,200	50	mg/kg
Manganese	111	0.5	mg/kg
Nickel	27.8	0.5	mg/kg
Potassium	3,030	50	mg/kg
Selenium	< 1.0	1.0	mg/kg
Silver	< 0.2	0.2	mg/kg
Sodium	2,610	50	mg/kg
Thallium	< 1.0	1.0	mg/kg
Vanadium	22.8	1.0	mg/kg
Zinc	47.7	1.0	mg/kg

Total Mercury
Analysis Date: 05/29/18

Method: 7471B

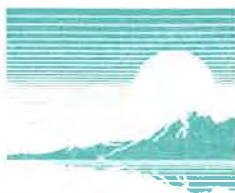
Mercury	< 0.05	0.05	mg/kg
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TCLP Metals Method 1311
Analysis Date: 06/01/18

Method: 6010C

Preparation Method 3010A
Preparation Date: 05/30/18

Arsenic	< 0.010	0.010	mg/L
Barium	< 1.0	1.0	mg/L



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Sample ID: 2-22 (0-5)

Sample No: 18-2892-022

Date Collected: 05/24/18

Time Collected: 11:00

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 06/01/18		Preparation Method 3010A		
		Preparation Date: 05/30/18		
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	1.7	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: 06/01/18				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction		Method: 1311		
Analysis Date: 05/30/18				
TCLP Extraction	Complete			
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 06/01/18		Preparation Method 3010A		
		Preparation Date: 05/31/18		
Arsenic	0.032	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.009	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.254	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.195	0.005	mg/L	
Iron	198	0.1	mg/L	
Lead	0.115	0.005	mg/L	
Manganese	0.9	0.1	mg/L	
Nickel	0.3	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	0.007	0.005	mg/L	
Zinc	0.5	0.1	mg/L	



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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.

Project ID: Torrence Ave

Sample ID: 2-22 (0-5)

Sample No: 18-2892-022

Date Collected: 05/24/18

Time Collected: 11:00

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Mercury Method 1312	Method: 7470A			
Analysis Date: 05/31/18				
Mercury	< 0.0005	0.0005	mg/L	

SPLP Extraction **Method: 1312**

Analysis Date: 05/30/18

SPLP Metals Extraction

Complete

Sample QC Summary: Surrogate Recovery

Method	Analyte	QC Result	%R Limits	
			Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 98.4	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 100.1	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 99.8	77	120



Illinois Environmental Protection Agency

Page 1 of 2

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: FAU 2937/Torrence Avenue Office Phone Number, if available: _____

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

3484-34 (Agricultural Land), 3484-35 (Residence and Vacant Land) - Torrence Avenue

City: Lynwood State: IL Zip Code: 60411

County: Cook Township: Bloom

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

Latitude: 41.526922 Longitude: -87.558449
(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: 847-705-4122

Zip Code: 60196 Phone: 847-705-4122

Contact: Paul Nickles

Contact: Paul Nickles

Email, if available: paul.nickles@illinois.gov

Email, if available: paul.nickles@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: FAU 2937/Torrence AvenueLatitude: 41.526922 Longitude: -87.558449

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 3484-34-04 (Torrence Avenue Sta 412+25, 15 Right), 3484-34-05 (Torrence Avenue Sta 414+25, 15 Right), 3484-34-06 (Torrence Avenue Sta 416+20, 15 Right), 3484-34-07 (Torrence Avenue Sta 417+25, 15 Right), 3484-35-01 (Torrence Avenue Sta 402+35, 25 Right), 3484-35-03 (Torrence Avenue Sta 404+25, 25 Right), and 3484-35-04 (Torrence Avenue Sta 405+25, 20 Right)

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

Refer to Tables 4-2 and 4-3 in the Final PSI Report for results summary and First Environmental Laboratories, Inc. report #18-2892. 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 330City: Oak Brook State: IL Zip Code: 60523Phone: 630-684-9100Jeremy J. Reynolds, P.G.

Printed Name:

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

Date: 8/17/18

LPC-663 Results Table for Site 3484-34-04, 34-05, 34-06, 34-07, 35-01, 35-03, 35-04
Soils for Unrestricted Reuse or Disposal Including CCDD/USFO Facilities

Boring ID	3484-34-04	3484-34-05	3484-34-06	DUP-01 (3484-34-06)	3484-34-07	3484-35-01	3484-35-03	3484-35-04	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}	Soil Remediation Objective for Residential Exposure ^{c/}
Sample Depth, ft	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1			
Sample Date	5/24/18	5/24/18	5/24/18	5/24/18	5/24/18	5/24/18	5/24/18	5/24/18			
Excavation Area(s) [ISGS Site No.(s)]						3484-35					
Parameter											
Laboratory soil pH (s.u.)	7.36	8.98	8.97	8.92	8.13	7.49	8.83	7.76	6.25 - 9.0	---	---
VOCs (mg/kg)											
SVOCs, mg/kg											
Benzo(a)anthracene	0.706	0.984	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.9 / 1.1 / 1.8	170	0.9
Benzo(a)pyrene	0.755	0.944	0.1	0.191	0.192	0.157	0.175	<0.09	0.09 / 1.3 / 2.1	17	0.09
Benzo(b)fluoranthene	0.79	0.842	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.9 / 1.5 / 2.1	170	0.9
Dibenz(a,h)anthracene	<0.09	0.097	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	0.09 / 0.2 / 0.42	17	0.09
Total Metals, mg/kg											
Beryllium	0.6	<0.5	<0.5	0.8	<0.5	<0.5	<0.5	<0.5	22	410	160
Chromium	14.9	6.2	5.8	18.2	15.1	5.2	11.9	11.2	21	690	230
Iron	15300	9520	7640	19100	19500	7420	15400	11100	15,000 / 15,900	---	---
Lead	8.2	40.8	9.4	20.8	15.9	15.9	16.1	13.1	107	700	400
Manganese	243	216	284	189	251	258	291	198	630 / 636	4,100	1600
Mercury	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.89	0.1	10
TCLP Metals, mg/L									Class I Groundwater ^{d/}		
Beryllium	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	0.004		
Chromium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.1		
Iron	0.6	<0.1	<0.1	0.4	0.7	<0.1	<0.1	<0.1	5		
Lead	<0.005	<0.005	<0.005	0.007	0.029	<0.005	0.018	0.006	0.0075		
Manganese	2.3	0.5	2.1	1.3	4.2	0.6	0.2	4	0.15		
Mercury	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.002		
SPLP Metals, mg/L											
Beryllium	<0.004	<0.004	<0.004	0.005	<0.004	<0.004	<0.004	<0.004	0.004		
Chromium	0.025	0.033	0.052	0.131	0.027	0.013	0.054	0.027	0.1		
Iron	22.4	30.1	50	108	31.6	11.2	50.1	25.2	5		
Lead	0.024	0.037	0.059	0.101	0.027	0.016	0.046	0.038	0.0075		
Manganese	0.3	0.3	0.5	0.6	0.1	<0.1	0.4	0.3	0.15		
Mercury	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.002		

--- - 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 the MSA County Value From the MAC Table as Applicable

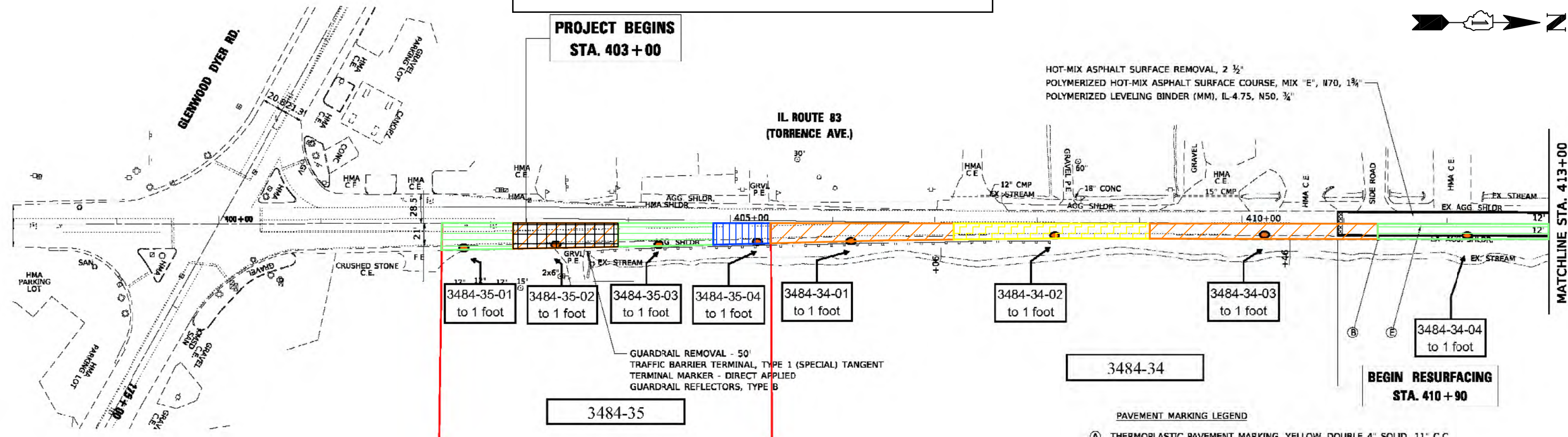
^{b/} Soil Remediation Objective for Construction Workers, most stringent of the Ingestion or Inhalation exposure route.

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

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

Shaded values indicate concentration exceeds reference concentration

FIGURE 4-1.1 EXTENT OF POTENTIALLY IMPACTED SOIL



HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", #70, 1 3/4"
POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, 3/4"

IL ROUTE 83
(TORRENCE AVE.)

3484-35-01 to 1 foot
3484-35-02 to 1 foot
3484-35-03 to 1 foot
3484-35-04 to 1 foot
3484-34-01 to 1 foot
3484-34-02 to 1 foot
3484-34-03 to 1 foot
3484-34-04 to 1 foot

GUARDRAIL REMOVAL - 50'
TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
TERMINAL MARKER - DIRECT APPLIED
GUARDRAIL REFLECTORS, TYPE B

3484-34

BEGIN RESURFACING
STA. 410+90

PAVEMENT MARKING LEGEND

- (A) THERMOPLASTIC PAVEMENT MARKING, YELLOW, DOUBLE 4" SOLID, 11" C C
- (B) THERMOPLASTIC PAVEMENT MARKING, WHITE, 4" SOLID
- (C) THERMOPLASTIC PAVEMENT MARKING, YELLOW, 4" SOLID
- (D) THERMOPLASTIC PAVEMENT MARKING, WHITE, 4" DASHED, 10' DASH 30' SKIP
- (E) THERMOPLASTIC PAVEMENT MARKING, YELLOW, 4" DASHED, 10' DASH 30' SKIP
- (F) THERMOPLASTIC PAVEMENT MARKING, YELLOW, 4" SOLID AND DASH-SKIP, YELLOW, 5 1/2" C-C
- (G) THERMOPLASTIC PAVEMENT MARKING, WHITE, 6" SOLID
- (H) THERMOPLASTIC PAVEMENT MARKING, WHITE, 6" DASHED, 2' DASH 6' SKIP
- (I) THERMOPLASTIC PAVEMENT MARKING, WHITE, 12" SOLID
- (J) THERMOPLASTIC PAVEMENT MARKING, YELLOW, 12" SOLID
- (K) THERMOPLASTIC PAVEMENT MARKING, WHITE, 24" SOLID
- (L) THERMOPLASTIC PAVEMENT MARKING, LETTERS AND SYMBOLS

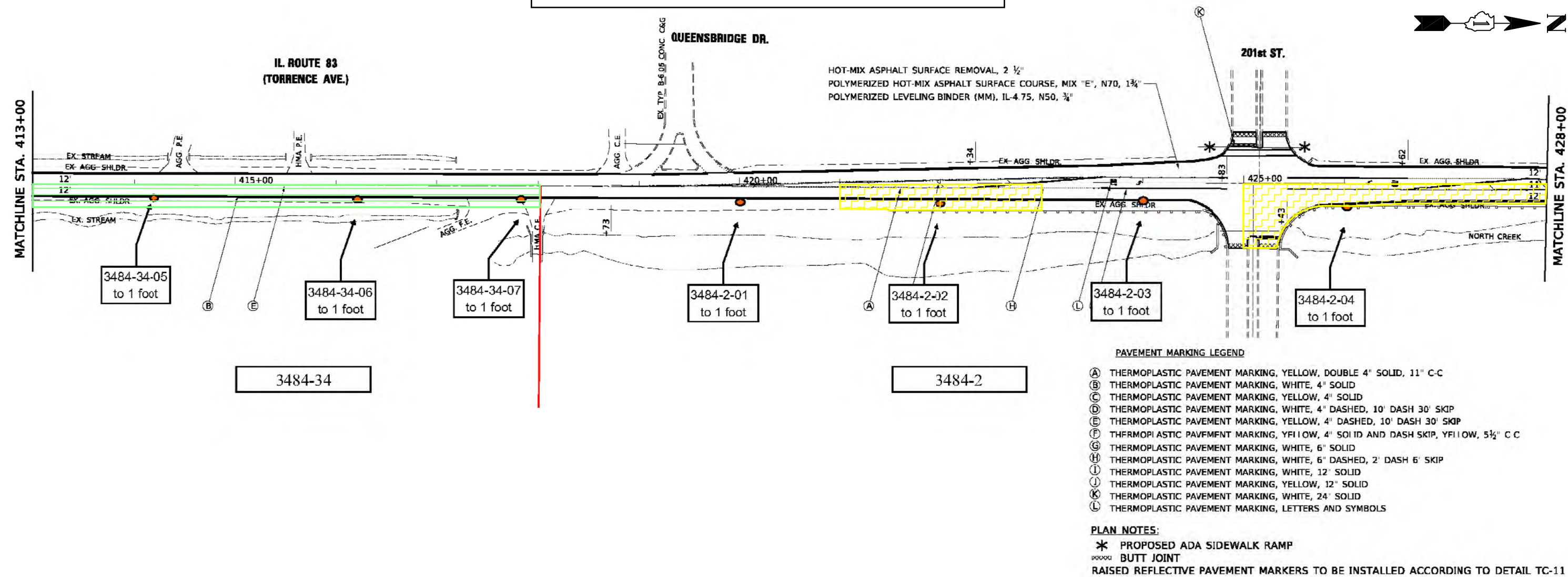
LEGEND

- 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.

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN IL 83 (I-80 TO GLENWOOD DYER ROAD)					F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -		2937	(3076-1 & 3077) RS-1	COOK	6	1					
	PLOT SCALE =	CHECKED -	REVISED -		CONTRACT NO. NO 62C51									
	PLOT DATE =	DATE -	REVISED -		ILLINOIS									
	SCALE: 1" = 100'		SHEET NO. 1 OF 6 SHEETS		STA. 458+00 TO STA. 488+00									

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

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN IL 83 (I-80 TO GLENWOOD DYER ROAD)				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -		2937	(3076-1 & 3077) RS-1	COOK	6	2				
	PLOT SCALE =	CHECKED -	REVISED -		CONTRACT NO. NO 62C51								
	PLOT DATE =	DATE -	REVISED -		ILLINOIS								
	SCALE: 1" = 100'				SHEET NO. 1 OF 6	SHEETS	STA. 458+00	TO STA. 488+00					



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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.

Project ID: Torrence Ave

Sample ID: 34-04 (0-1)

Sample No: 18-2892-028

Date Collected: 05/24/18

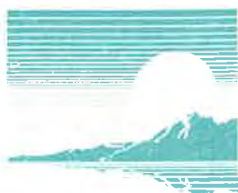
Time Collected: 9:36

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 05/25/18 14:00				
Total Solids	70.02		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 06/01/18				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	31.8	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-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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Project ID: Torrence Ave

Sample ID: 34-04 (0-1)

Sample No: 18-2892-028

Date Collected: 05/24/18

Time Collected: 9:36

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 06/01/18				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C	Preparation Method 3540C	
Analysis Date: 05/30/18			Preparation Date: 05/29/18	
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	706	330	ug/kg	
Benzo(a)pyrene	755	90	ug/kg	
Benzo(b)fluoranthene	790	330	ug/kg	
Benzo(k)fluoranthene	910	330	ug/kg	
Benzo(ghi)perylene	377	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	943	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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Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Preparation Method 3540C		
Analysis Date: 05/30/18		Preparation Date: 05/29/18		
Method: 8270C				
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	1,960	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	418	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	1,400	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	1,750	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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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: Torrence Ave

Sample ID: 34-04 (0-1)

Sample No: 18-2892-028

Date Collected: 05/24/18

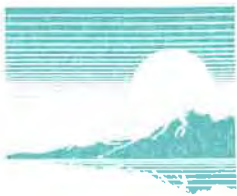
Time Collected: 9:36

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 05/30/18		Preparation Date: 05/29/18		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 05/29/18 11:25				
pH @ 25°C, 1:2	7.36		Units	
Total Metals				
Method: 6010C		Preparation Method 3050B		
Analysis Date: 05/30/18		Preparation Date: 05/25/18		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.7	1.0	mg/kg	
Barium	78.6	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	4,900	50	mg/kg	
Chromium	14.9	0.5	mg/kg	
Cobalt	5.0	0.5	mg/kg	
Copper	15.1	0.5	mg/kg	
Iron	15,300	5.0	mg/kg	
Lead	8.2	0.5	mg/kg	
Magnesium	3,090	50	mg/kg	
Manganese	243	0.5	mg/kg	
Nickel	14.6	0.5	mg/kg	
Potassium	1,340	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	3,340	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	19.8	1.0	mg/kg	
Zinc	37.8	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 05/29/18				
Mercury	< 0.05	0.05	mg/kg	
TCLP Metals Method 1311				
Method: 6010C		Preparation Method 3010A		
Analysis Date: 06/01/18		Preparation Date: 05/30/18		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 34-04 (0-1)

Sample No: 18-2892-028

Date Collected: 05/24/18

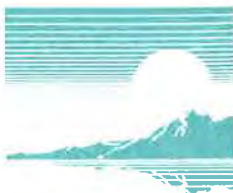
Time Collected: 9:36

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 06/01/18		Preparation Method 3010A		
		Preparation Date: 05/30/18		
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.6	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	2.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 06/01/18				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction		Method: 1311		
Analysis Date: 05/30/18				
TCLP Extraction	Complete			
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 06/01/18		Preparation Method 3010A		
		Preparation Date: 05/31/18		
Arsenic	< 0.010	0.010	mg/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	0.029	0.005	mg/L	
Iron	22.4	0.1	mg/L	
Lead	0.024	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 34-04 (0-1)

Sample No: 18-2892-028

Date Collected: 05/24/18

Time Collected: 9:36

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Mercury Method 1312	Method: 7470A			
Analysis Date: 05/31/18				
Mercury	< 0.0005	0.0005	mg/L	

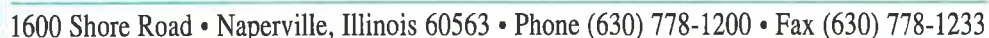
SPLP Extraction **Method: 1312**

Analysis Date: 05/30/18

SPLP Metals Extraction Complete

Sample QC Summary: *Surrogate Recovery*

Method	Analyte	QC Result		%R Limits	
				Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.9	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.5	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	100.4	77	120



Analyte	Result	R.L.	Units	Flags
Solids, Total	Method: 2540B			
Analysis Date: 05/25/18 14:00				
Total Solids	84.5		%	
Volatile Organic Compounds	Method: 5035A/8260B			
Analysis Date: 06/01/18				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	6.1	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	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: Torrence Ave

Sample ID: 34-05 (0-1)

Sample No: 18-2892-029

Date Collected: 05/24/18

Time Collected: 9:38

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 06/01/18				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 05/30/18		Preparation Date: 05/29/18		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	984	330	ug/kg	
Benzo(a)pyrene	944	90	ug/kg	
Benzo(b)fluoranthene	842	330	ug/kg	
Benzo(k)fluoranthene	887	330	ug/kg	
Benzo(ghi)perylene	390	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	942	330	ug/kg	
Dibenzo(a,h)anthracene	97	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	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: Torrence Ave

Sample ID: 34-05 (0-1)

Sample No: 18-2892-029

Date Collected: 05/24/18

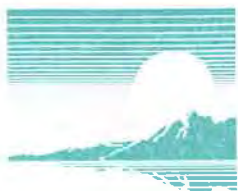
Time Collected: 9:38

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Preparation Method 3540C		
Method: 8270C		Preparation Date: 05/29/18		
Analysis Date: 05/30/18				
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	1,760	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	424	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	1,120	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	1,810	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: Torrence Ave

Sample ID: 34-05 (0-1)

Sample No: 18-2892-029

Date Collected: 05/24/18

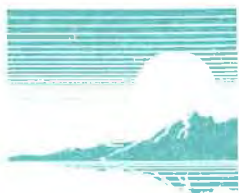
Time Collected: 9:38

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 05/30/18		Preparation Date: 05/29/18		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 05/29/18 11:25				
pH @ 25°C, 1:2	8.98		Units	
Total Metals				
Method: 6010C		Preparation Method 3050B		
Analysis Date: 05/30/18		Preparation Date: 05/25/18		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.4	1.0	mg/kg	
Barium	32.7	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	28,400	50	mg/kg	
Chromium	6.2	0.5	mg/kg	
Cobalt	4.3	0.5	mg/kg	
Copper	15.0	0.5	mg/kg	
Iron	9,520	5.0	mg/kg	
Lead	40.8	0.5	mg/kg	
Magnesium	14,200	50	mg/kg	
Manganese	216	0.5	mg/kg	
Nickel	9.2	0.5	mg/kg	
Potassium	572	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,370	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	11.6	1.0	mg/kg	
Zinc	55.9	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 05/29/18				
Mercury	< 0.05	0.05	mg/kg	
TCLP Metals Method 1311				
Method: 6010C		Preparation Method 3010A		
Analysis Date: 06/01/18		Preparation Date: 05/30/18		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 34-05 (0-1)

Sample No: 18-2892-029

Date Collected: 05/24/18

Time Collected: 9:38

Date Received: 05/24/18

Date Reported: 06/06/18

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: 06/01/18 Preparation Date: 05/30/18				
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.5	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 06/01/18				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction Method: 1311				
Analysis Date: 05/30/18				
TCLP Extraction	Complete			
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 06/01/18 Preparation Date: 05/31/18				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.033	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.036	0.005	mg/L	
Iron	30.1	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	
Silver	< 0.005	0.005	mg/L	
Zinc	0.2	0.1	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 34-05 (0-1)

Sample No: 18-2892-029

Date Collected: 05/24/18

Time Collected: 9:38

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Mercury Method 1312	Method: 7470A			
Analysis Date: 05/31/18				
Mercury	< 0.0005	0.0005	mg/L	

SPLP Extraction	Method: 1312
Analysis Date: 05/30/18	
SPLP Metals Extraction	Complete

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.2	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	102.1	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	105.6	77	120



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 34-06 (0-1)

Sample No: 18-2892-030

Date Collected: 05/24/18

Time Collected: 9:40

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 05/25/18 14:00				
Total Solids	87.55		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 06/01/18				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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	



**First
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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: Torrence Ave

Sample ID: 34-06 (0-1)

Sample No: 18-2892-030

Date Collected: 05/24/18

Time Collected: 9:40

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 06/01/18				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/30/18		Preparation Date: 05/29/18		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	100	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	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: Torrence Ave

Sample ID: 34-06 (0-1)

Sample No: 18-2892-030

Date Collected: 05/24/18

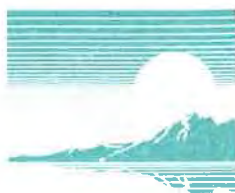
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Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Preparation Method 3540C		
Method: 8270C		Preparation Date: 05/29/18		
Analysis Date: 05/30/18				
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	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: Torrence Ave

Sample ID: 34-06 (0-1)

Sample No: 18-2892-030

Date Collected: 05/24/18

Time Collected: 9:40

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/30/18		Preparation Date: 05/29/18		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	

pH @ 25°C, 1:2

Method: 9045D 2004

Analysis Date: 05/29/18 11:25

pH @ 25°C, 1:2

8.97

Units

Total Metals

Method: 6010C

Preparation Method 3050B

Analysis Date: 05/30/18

Preparation Date: 05/25/18

Antimony	< 1.0	1.0	mg/kg
Arsenic	3.9	1.0	mg/kg
Barium	21.4	0.5	mg/kg
Beryllium	< 0.5	0.5	mg/kg
Cadmium	< 0.5	0.5	mg/kg
Calcium	65,400	50	mg/kg
Chromium	5.8	0.5	mg/kg
Cobalt	4.8	0.5	mg/kg
Copper	8.8	0.5	mg/kg
Iron	7,640	5.0	mg/kg
Lead	9.4	0.5	mg/kg
Magnesium	38,700	50	mg/kg
Manganese	284	0.5	mg/kg
Nickel	9.6	0.5	mg/kg
Potassium	714	50	mg/kg
Selenium	< 1.0	1.0	mg/kg
Silver	< 0.2	0.2	mg/kg
Sodium	1,350	50	mg/kg
Thallium	< 1.0	1.0	mg/kg
Vanadium	10.4	1.0	mg/kg
Zinc	19.6	1.0	mg/kg

Total Mercury

Method: 7471B

Analysis Date: 05/29/18

Mercury

< 0.05

0.05

mg/kg

TCLP Metals Method 1311

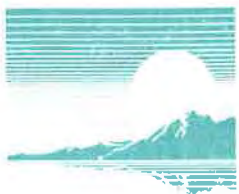
Method: 6010C

Preparation Method 3010A

Analysis Date: 06/01/18

Preparation Date: 05/30/18

Arsenic	< 0.010	0.010	mg/L
Barium	< 1.0	1.0	mg/L



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 34-06 (0-1)

Sample No: 18-2892-030

Date Collected: 05/24/18

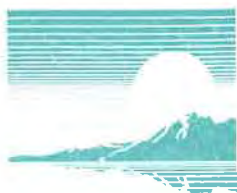
Time Collected: 9:40

Date Received: 05/24/18

Date Reported: 06/06/18

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: 06/01/18 Preparation Date: 05/30/18				
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	2.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 06/01/18				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction Method: 1311				
Analysis Date: 05/30/18				
TCLP Extraction	Complete			
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 06/01/18 Preparation Date: 05/31/18				
Arsenic	0.014	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.052	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.055	0.005	mg/L	
Iron	50.0	0.1	mg/L	
Lead	0.059	0.005	mg/L	
Manganese	0.5	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.2	0.1	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 34-06 (0-1)

Sample No: 18-2892-030

Date Collected: 05/24/18

Time Collected: 9:40

Date Received: 05/24/18

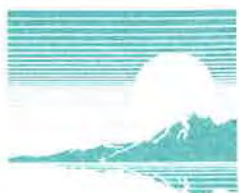
Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Mercury Method 1312	Method: 7470A			
Analysis Date: 05/31/18				
Mercury	< 0.0005	0.0005	mg/L	

SPLP Extraction	Method: 1312
Analysis Date: 05/30/18	
SPLP Metals Extraction	Complete

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.6	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.6	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	101	77	120



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 34-07 (0-1)

Sample No: 18-2892-031

Date Collected: 05/24/18

Time Collected: 9:45

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 05/25/18 14:00				
Total Solids	81.45		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 06/01/18				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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: Torrence Ave

Sample ID: 34-07 (0-1)

Sample No: 18-2892-031

Date Collected: 05/24/18

Time Collected: 9:45

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 06/01/18				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	

Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C	
Analysis Date: 05/31/18		Preparation Date: 05/29/18	
Acenaphthene	< 330	330	ug/kg
Acenaphthylene	< 330	330	ug/kg
Anthracene	< 330	330	ug/kg
Benzidine	< 330	330	ug/kg
Benzo(a)anthracene	< 330	330	ug/kg
Benzo(a)pyrene	192	90	ug/kg
Benzo(b)fluoranthene	< 330	330	ug/kg
Benzo(k)fluoranthene	< 330	330	ug/kg
Benzo(ghi)perylene	< 330	330	ug/kg
Benzoic acid	< 330	330	ug/kg
Benzyl alcohol	< 330	330	ug/kg
bis(2-Chloroethoxy)methane	< 330	330	ug/kg
bis(2-Chloroethyl)ether	< 330	330	ug/kg
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg
4-Bromophenyl phenyl ether	< 330	330	ug/kg
Butyl benzyl phthalate	< 330	330	ug/kg
Carbazole	< 330	330	ug/kg
4-Chloroaniline	< 330	330	ug/kg
4-Chloro-3-methylphenol	< 330	330	ug/kg
2-Chloronaphthalene	< 330	330	ug/kg
2-Chlorophenol	< 330	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: Torrence Ave

Sample ID: 34-07 (0-1)

Sample No: 18-2892-031

Date Collected: 05/24/18

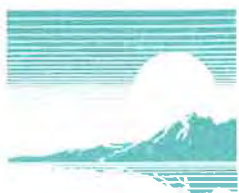
Time Collected: 9:45

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/31/18		Preparation Date: 05/29/18		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	375	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	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	372	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: Torrence Ave

Sample ID: 34-07 (0-1)

Sample No: 18-2892-031

Date Collected: 05/24/18

Time Collected: 9:45

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		
Analysis Date: 05/31/18		Preparation Method 3540C		
		Preparation Date: 05/29/18		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	

pH @ 25°C, 1:2

Method: 9045D 2004

Analysis Date: 05/29/18 11:25

pH @ 25°C, 1:2

8.13

Units

Total Metals

Method: 6010C

Preparation Method 3050B

Analysis Date: 05/30/18

Preparation Date: 05/25/18

Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.6	1.0	mg/kg	
Barium	39.3	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	36,400	50	mg/kg	
Chromium	15.1	0.5	mg/kg	
Cobalt	7.8	0.5	mg/kg	
Copper	16.3	0.5	mg/kg	
Iron	19,500	5.0	mg/kg	
Lead	15.9	0.5	mg/kg	
Magnesium	17,100	50	mg/kg	
Manganese	251	0.5	mg/kg	
Nickel	21.0	0.5	mg/kg	
Potassium	2,530	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	316	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	21.1	1.0	mg/kg	
Zinc	39.7	1.0	mg/kg	

Total Mercury

Method: 7471B

Analysis Date: 05/29/18

Mercury

< 0.05

0.05

mg/kg

TCLP Metals Method 1311

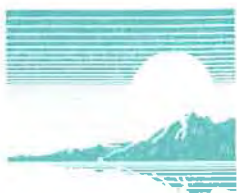
Method: 6010C

Preparation Method 3010A

Analysis Date: 06/01/18

Preparation Date: 05/30/18

Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	



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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: Torrence Ave

Sample ID: 34-07- (0-1)

Sample No: 18-2892-031

Date Collected: 05/24/18

Time Collected: 9:45

Date Received: 05/24/18

Date Reported: 06/06/18

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: 06/01/18 Preparation Date: 05/30/18				
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.7	0.1	mg/L	
Lead	0.029	0.005	mg/L	
Manganese	4.2	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: 06/01/18				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction Method: 1311				
Analysis Date: 05/30/18				
TCLP Extraction	Complete			
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 06/01/18 Preparation Date: 05/31/18				
Arsenic	0.015	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.027	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.032	0.005	mg/L	
Iron	31.6	0.1	mg/L	
Lead	0.027	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	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 34-07 (0-1)

Sample No: 18-2892-031

Date Collected: 05/24/18

Time Collected: 9:45

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Mercury Method 1312	Method: 7470A			
Analysis Date: 05/31/18				
Mercury	< 0.0005	0.0005	mg/L	

SPLP Extraction

Method: 1312

Analysis Date: 05/30/18

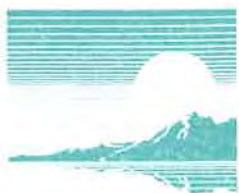
SPLP Metals Extraction

Complete

Sample QC Summary:

Surrogate Recovery

Method	Analyte	QC Result		%R Limits	
				Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.6	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.8	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103.2	77	120



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 35-01 (0-1)

Sample No: 18-2892-032

Date Collected: 05/24/18

Time Collected: 9:10

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total	Method: 2540B			
Analysis Date: 05/25/18 14:00				
Total Solids	95.35		%	

Volatile Organic Compounds **Method: 5035A/8260B**
Analysis Date: 06/01/18

Acetone	< 200	200	ug/kg
Benzene	< 5.0	5.0	ug/kg
Bromodichloromethane	< 5.0	5.0	ug/kg
Bromoform	< 5.0	5.0	ug/kg
Bromomethane	< 10.0	10.0	ug/kg
2-Butanone (MEK)	< 100	100	ug/kg
Carbon disulfide	< 5.0	5.0	ug/kg
Carbon tetrachloride	< 5.0	5.0	ug/kg
Chlorobenzene	< 5.0	5.0	ug/kg
Chlorodibromomethane	< 5.0	5.0	ug/kg
Chloroethane	< 10.0	10.0	ug/kg
Chloroform	< 5.0	5.0	ug/kg
Chloromethane	< 10.0	10.0	ug/kg
1,1-Dichloroethane	< 5.0	5.0	ug/kg
1,2-Dichloroethane	< 5.0	5.0	ug/kg
1,1-Dichloroethene	< 5.0	5.0	ug/kg
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg
1,2-Dichloropropane	< 5.0	5.0	ug/kg
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg
Ethylbenzene	< 5.0	5.0	ug/kg
2-Hexanone	< 10.0	10.0	ug/kg
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg
Methylene chloride	< 20.0	20.0	ug/kg
Styrene	< 5.0	5.0	ug/kg
1,1,2,2-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: Torrence Ave

Sample ID: 35-01 (0-1)

Sample No: 18-2892-032

Date Collected: 05/24/18

Time Collected: 9:10

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Results are reported on a dry weight basis.				
Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 06/01/18				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C	Preparation Method 3540C	
Analysis Date: 05/31/18			Preparation Date: 05/29/18	
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	157	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	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: Torrence Ave

Sample ID: 35-01 (0-1)

Sample No: 18-2892-032

Date Collected: 05/24/18

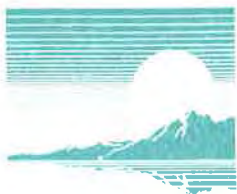
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Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Preparation Method 3540C		
Analysis Date: 05/31/18		Preparation Date: 05/29/18		
Method: 8270C				
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	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: Torrence Ave

Sample ID: 35-01 (0-1)

Sample No: 18-2892-032

Date Collected: 05/24/18

Time Collected: 9:10

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/31/18		Preparation Date: 05/29/18		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	

pH @ 25°C, 1:2

Method: 9045D 2004

Analysis Date: 05/30/18 13:30

pH @ 25°C, 1:2

7.49

Units

Total Metals

Method: 6010C

Preparation Method 3050B

Analysis Date: 05/30/18

Preparation Date: 05/25/18

Antimony	< 1.0	1.0	mg/kg
Arsenic	4.2	1.0	mg/kg
Barium	23.8	0.5	mg/kg
Beryllium	< 0.5	0.5	mg/kg
Cadmium	< 0.5	0.5	mg/kg
Calcium	94,300	50	mg/kg
Chromium	5.2	0.5	mg/kg
Cobalt	4.0	0.5	mg/kg
Copper	8.5	0.5	mg/kg
Iron	7,420	5.0	mg/kg
Lead	15.9	0.5	mg/kg
Magnesium	54,900	50	mg/kg
Manganese	258	0.5	mg/kg
Nickel	9.5	0.5	mg/kg
Potassium	783	50	mg/kg
Selenium	< 1.0	1.0	mg/kg
Silver	< 0.2	0.2	mg/kg
Sodium	325	50	mg/kg
Thallium	< 1.0	1.0	mg/kg
Vanadium	7.5	1.0	mg/kg
Zinc	25.5	1.0	mg/kg

Total Mercury

Method: 7471B

Analysis Date: 05/29/18

Mercury

< 0.05

0.05

mg/kg

TCLP Metals Method 1311

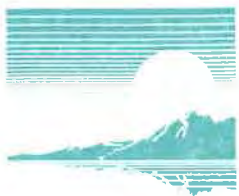
Method: 6010C

Preparation Method 3010A

Analysis Date: 06/01/18

Preparation Date: 05/30/18

Arsenic	< 0.010	0.010	mg/L
Barium	< 1.0	1.0	mg/L



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 35-01 (0-1)

Sample No: 18-2892-032

Date Collected: 05/24/18

Time Collected: 9:10

Date Received: 05/24/18

Date Reported: 06/06/18

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: 06/01/18		Preparation Date: 05/30/18		
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.6	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 06/01/18				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction Method: 1311				
Analysis Date: 05/30/18				
TCLP Extraction	Complete			
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 06/01/18		Preparation Date: 05/31/18		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.013	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.011	0.005	mg/L	
Iron	11.2	0.1	mg/L	
Lead	0.016	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	



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Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 35-01 (0-1)

Sample No: 18-2892-032

Date Collected: 05/24/18

Time Collected: 9:10

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Mercury Method 1312	Method: 7470A			
Analysis Date: 05/31/18				
Mercury	< 0.0005	0.0005	mg/L	

SPLP Extraction **Method: 1312**

Analysis Date: 05/30/18

SPLP Metals Extraction Complete

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	100.9	77	120



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 35-03 (0-1)

Sample No: 18-2892-034

Date Collected: 05/24/18

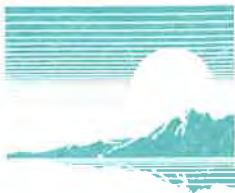
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Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total				
Method: 2540B				
Analysis Date: 05/25/18 14:00				
Total Solids	73.6		%	
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 06/01/18				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	12.4	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 35-03 (0-1)

Sample No: 18-2892-034

Date Collected: 05/24/18

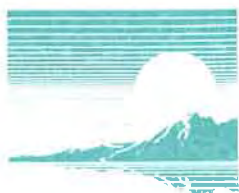
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Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Results are reported on a dry weight basis.				
Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 06/01/18				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C	Preparation Method 3540C	
Analysis Date: 05/31/18			Preparation Date: 05/29/18	
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	175	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	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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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: Torrence Ave

Sample ID: 35-03 (0-1)

Sample No: 18-2892-034

Date Collected: 05/24/18

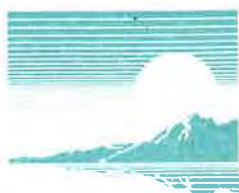
Time Collected: 9:19

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/31/18		Preparation Date: 05/29/18		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	370	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	352	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	370	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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IL ELAP / NELAC Accreditation # 100292

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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 35-03 (0-1)

Sample No: 18-2892-034

Date Collected: 05/24/18

Time Collected: 9:19

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 05/31/18		Preparation Date: 05/29/18		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 05/30/18 13:30				
pH @ 25°C, 1:2	8.83		Units	
Total Metals				
Method: 6010C		Preparation Method 3050B		
Analysis Date: 05/30/18		Preparation Date: 05/25/18		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.0	1.0	mg/kg	
Barium	67.9	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	4,420	50	mg/kg	
Chromium	11.9	0.5	mg/kg	
Cobalt	5.3	0.5	mg/kg	
Copper	14.7	0.5	mg/kg	
Iron	15,400	5.0	mg/kg	
Lead	16.1	0.5	mg/kg	
Magnesium	2,680	50	mg/kg	
Manganese	291	0.5	mg/kg	
Nickel	13.9	0.5	mg/kg	
Potassium	881	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	3,160	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	18.1	1.0	mg/kg	
Zinc	44.0	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 05/29/18				
Mercury	< 0.05	0.05	mg/kg	
TCLP Metals Method 1311				
Method: 6010C		Preparation Method 3010A		
Analysis Date: 06/01/18		Preparation Date: 05/30/18		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 35-03 (0-1)

Sample No: 18-2892-034

Date Collected: 05/24/18

Time Collected: 9:19

Date Received: 05/24/18

Date Reported: 06/06/18

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: 06/01/18		Preparation Date: 05/30/18		
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	0.018	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 06/01/18				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction Method: 1311				
Analysis Date: 05/30/18				
TCLP Extraction	Complete			
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 06/01/18		Preparation Date: 05/31/18		
Arsenic	0.011	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.054	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.045	0.005	mg/L	
Iron	50.1	0.1	mg/L	
Lead	0.046	0.005	mg/L	
Manganese	0.4	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.2	0.1	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 35-03 (0-1)

Sample No: 18-2892-034

Date Collected: 05/24/18

Time Collected: 9:19

Date Received: 05/24/18

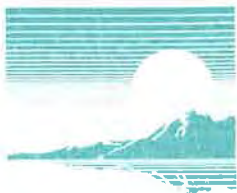
Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Mercury Method 1312	Method: 7470A			
Analysis Date: 05/31/18				
Mercury	< 0.0005	0.0005	mg/L	

SPLP Extraction	Method: 1312
Analysis Date: 05/30/18	
SPLP Metals Extraction	Complete

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.2	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	101	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	101.6	77	120



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 35-04 (0-1)

Sample No: 18-2892-035

Date Collected: 05/24/18

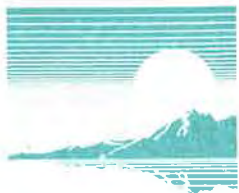
Time Collected: 9:25

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 05/25/18 14:00				
Total Solids	86.1		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 06/01/18				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	13.3	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 35-04 (0-1)

Sample No: 18-2892-035

Date Collected: 05/24/18

Time Collected: 9:25

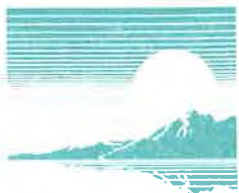
Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Results are reported on a dry weight basis.				
Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 06/01/18				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	

Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C	
Analysis Date: 05/31/18				Preparation Date: 05/29/18	
Acenaphthlene	< 330	330	ug/kg		
Acenaphthylene	< 330	330	ug/kg		
Anthracene	< 330	330	ug/kg		
Benzidine	< 330	330	ug/kg		
Benzo(a)anthracene	< 330	330	ug/kg		
Benzo(a)pyrene	< 90	90	ug/kg		
Benzo(b)fluoranthene	< 330	330	ug/kg		
Benzo(k)fluoranthene	< 330	330	ug/kg		
Benzo(ghi)perylene	< 330	330	ug/kg		
Benzoic acid	< 330	330	ug/kg		
Benzyl alcohol	< 330	330	ug/kg		
bis(2-Chloroethoxy)methane	< 330	330	ug/kg		
bis(2-Chloroethyl)ether	< 330	330	ug/kg		
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg		
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg		
4-Bromophenyl phenyl ether	< 330	330	ug/kg		
Butyl benzyl phthalate	< 330	330	ug/kg		
Carbazole	< 330	330	ug/kg		
4-Chloroaniline	< 330	330	ug/kg		
4-Chloro-3-methylphenol	< 330	330	ug/kg		
2-Chloronaphthalene	< 330	330	ug/kg		
2-Chlorophenol	< 330	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: Torrence Ave

Sample ID: 35-04 (0-1)

Sample No: 18-2892-035

Date Collected: 05/24/18

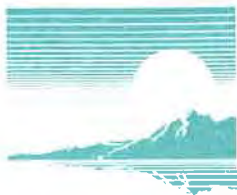
Time Collected: 9:25

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Preparation Method 3540C		
Analysis Date: 05/31/18		Preparation Date: 05/29/18		
Method: 8270C				
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	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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IL ELAP / NELAC Accreditation # 100292

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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 35-04 (0-1)

Sample No: 18-2892-035

Date Collected: 05/24/18

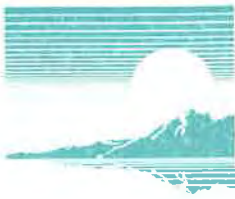
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Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds Method: 8270C Preparation Method 3540C Analysis Date: 05/31/18 Preparation Date: 05/29/18				
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
pH @ 25°C, 1:2 Method: 9045D 2004 Analysis Date: 05/30/18 13:30				
pH @ 25°C, 1:2	7.76		Units	
Total Metals Method: 6010C Preparation Method 3050B Analysis Date: 05/30/18 Preparation Date: 05/25/18				
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.5	1.0	mg/kg	
Barium	57.2	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	8,810	50	mg/kg	
Chromium	11.2	0.5	mg/kg	
Cobalt	4.8	0.5	mg/kg	
Copper	12.7	0.5	mg/kg	
Iron	11,100	5.0	mg/kg	
Lead	13.1	0.5	mg/kg	
Magnesium	3,520	50	mg/kg	
Manganese	198	0.5	mg/kg	
Nickel	11.9	0.5	mg/kg	
Potassium	1,110	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	2,610	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	15.7	1.0	mg/kg	
Zinc	41.8	1.0	mg/kg	
Total Mercury Method: 7471B Analysis Date: 05/29/18				
Mercury	< 0.05	0.05	mg/kg	
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A Analysis Date: 06/01/18 Preparation Date: 05/30/18				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 35-04 (0-1)

Sample No: 18-2892-035

Date Collected: 05/24/18

Time Collected: 9:25

Date Received: 05/24/18

Date Reported: 06/06/18

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: 06/01/18 Preparation Date: 05/30/18				
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	0.006	0.005	mg/L	
Manganese	4.0	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 06/01/18				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction Method: 1311				
Analysis Date: 05/30/18				
TCLP Extraction	Complete			
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A Analysis Date: 06/01/18 Preparation Date: 05/31/18				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.027	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.051	0.005	mg/L	
Iron	25.2	0.1	mg/L	
Lead	0.038	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	



**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.

Project ID: Torrence Ave

Sample ID: 35-04 (0-1)

Sample No: 18-2892-035

Date Collected: 05/24/18

Time Collected: 9:25

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Mercury Method 1312	Method: 7470A			
Analysis Date: 05/31/18				
Mercury	< 0.0005	0.0005	mg/L	

SPLP Extraction **Method: 1312**

Analysis Date: 05/30/18

SPLP Metals Extraction

Complete

Sample QC Summary: Surrogate Recovery

Method	Analyte	QC Result	%R Limits	
			Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 99	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 99.2	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 104.9	77	120



Illinois Environmental Protection Agency

Page 1 of 2

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: FAU 2937/Torrence Avenue Office Phone Number, if available: _____

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

3484-2 (North Creek)

City: Lynwood State: IL Zip Code: 60411

County: Cook Township: Bloom

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

Latitude: 41.536559 Longitude: -87.558561
(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

Name: Illinois Dept. of Transportation, District 1
Street Address: 201 W Center Court
PO Box: _____
City: Schaumburg State: IL
Zip Code: 60196 Phone: 847-705-4122
Contact: Paul Nickles
Email, if available: paul.nickles@illinois.gov

Site Operator

Name: Illinois Dept. of Transportation, District 1
Street Address: 201 W Center Court
PO Box: _____
City: Schaumburg State: IL
Zip Code: 60196 Phone: 847-705-4122
Contact: Paul Nickles
Email, if available: paul.nickles@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

Project Name: FAU 2937/Torrence AvenueLatitude: 41.536559 Longitude: -87.558561Uncontaminated 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 4-1.2, 4-1.4, and 4-1.5 in the Final PSI Report and borings 3484-2-01 (Torrence Avenue Sta 420+00, 15 Right), 3484-2-03 (Torrence Avenue Sta 424+00, 15 Right), 3484-2-16 (Torrence Avenue Sta 450+00, 15 Right), 3484-2-23 (Torrence Avenue Sta 464+00, 15 Right), 3484-2-24 (Torrence Avenue Sta 466+00, 15 Right)

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

Refer to Tables 4-2 and 4-3 in the Final PSI Report for results summary and First Environmental Laboratories, Inc. report #18-2892. 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 330City: Oak Brook State: IL Zip Code: 60523Phone: 630-684-9100Jeremy J. Reynolds, P.G.

Printed Name:

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

Date: 8/14/18

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

Soils for Unrestricted Reuse or Disposal Including CCDD/USFO Facilities

Boring ID	3484-2-01	3484-2-03	3484-2-16	3484-2-23	3484-2-24	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}	Soil Remediation Objective for Residential Exposure ^{c/}
Sample Depth, ft	0-1	0-1	0-5	0-5	0-5			
Sample Date	5/24/18	5/24/18	5/24/18	5/24/18	5/24/18			
Excavation Area(s)	3484-2 3484-34							
[ISGS Site No.(s)]								
Parameter								
Laboratory soil pH (s.u.)	8.73	8.29	8.35	8.52	8.41	6.25 - 9.0	---	---
VOCs (mg/kg)	NO EXCEEDANCES							
SVOCs, mg/kg								
Benzo(a)anthracene	<0.33	<0.33	<0.33	<0.33	<0.33	0.9 / 1.1 / 1.8	170	0.9
Benzo(a)pyrene	<0.09	<0.09	<0.09	<0.09	<0.09	0.09 / 1.3 / 2.1	17	0.09
Benzo(b)fluoranthene	<0.33	<0.33	<0.33	<0.33	<0.33	0.9 / 1.5 / 2.1	170	0.9
Dibenz(a,h)anthracene	<0.09	<0.09	<0.09	<0.09	<0.09	0.09 / 0.2 / 0.42	17	0.09
Total Metals, mg/kg								
Beryllium	<0.5	1	<0.5	0.6	0.8	22	410	160
Chromium	12.1	25.5	18.7	17.5	20.2	21	690	230
Iron	17800	25900	13400	20300	17300	15,000 / 15,900	---	---
Lead	19.5	15.7	8.4	9	11.5	107	700	400
Manganese	259	304	261	155	131	630 / 636	4,100	1600
Mercury	<0.05	<0.05	<0.05	<0.05	<0.05	0.89	0.1	10
TCLP Metals, mg/L						Class I Groundwater ^{d/}		
Beryllium	<1.00	<1.00	<1.00	<1.00	<1.00	0.004		
Chromium	0.006	<0.005	<0.005	<0.005	<0.005	0.1		
Iron	0.2	0.2	<0.1	<0.1	<0.1	5		
Lead	0.029	<0.005	<0.005	<0.005	<0.005	0.0075		
Manganese	7.9	0.2	1.3	1.4	0.4	0.15		
Mercury	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.002		
SPLP Metals, mg/L								
Beryllium	<0.004	<0.004	<0.004	<0.004	<0.004	0.004		
Chromium	<0.005	0.056	0.019	0.023	0.012	0.1		
Iron	3.2	38.9	14.2	21.9	8.8	5		
Lead	<0.005	0.012	<0.005	0.008	<0.005	0.0075		
Manganese	<0.1	0.1	0.1	0.1	<0.1	0.15		
Mercury	<0.0005	0.0101	<0.0005	<0.0005	<0.0005	0.002		

--- - 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 the MSA County Value From the MAC Table as Applicable

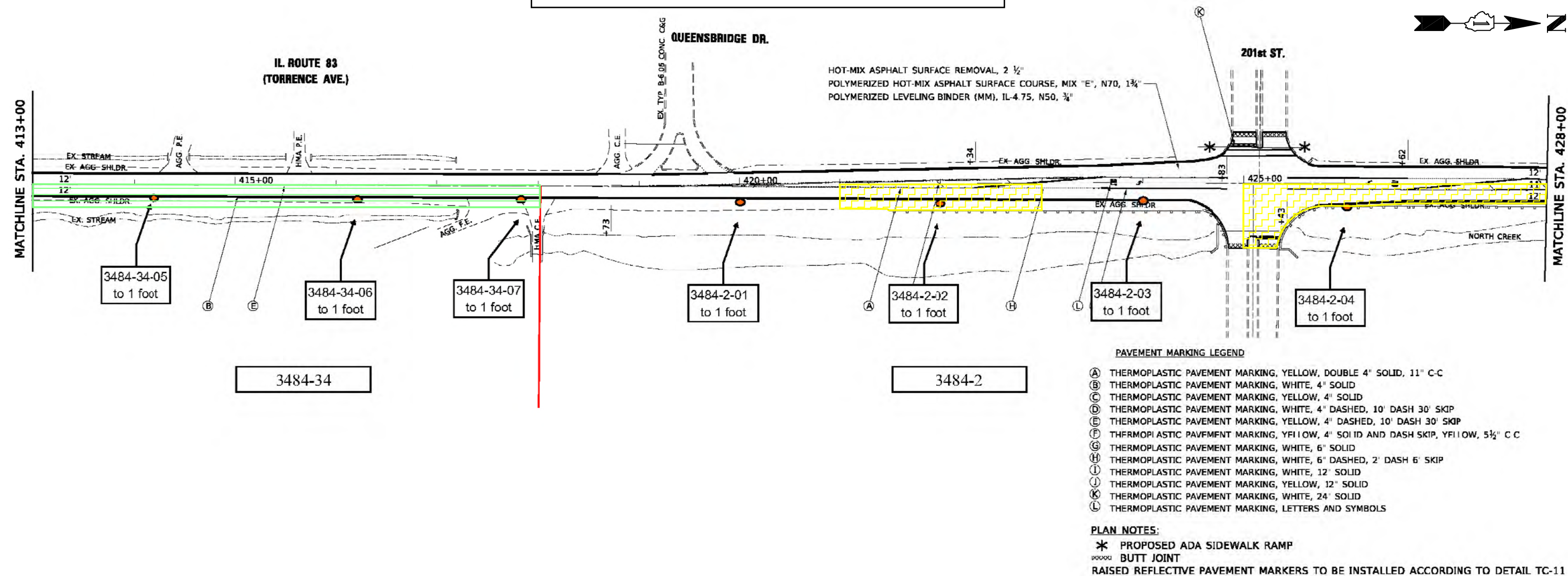
^{b/} Soil Remediation Objective for Construction Workers, most stringent of the Ingestion or Inhalation exposure route.

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

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

Shaded values indicate concentration exceeds reference concentration

FIGURE 4-1.2 EXTENT OF POTENTIALLY IMPACTED SOIL



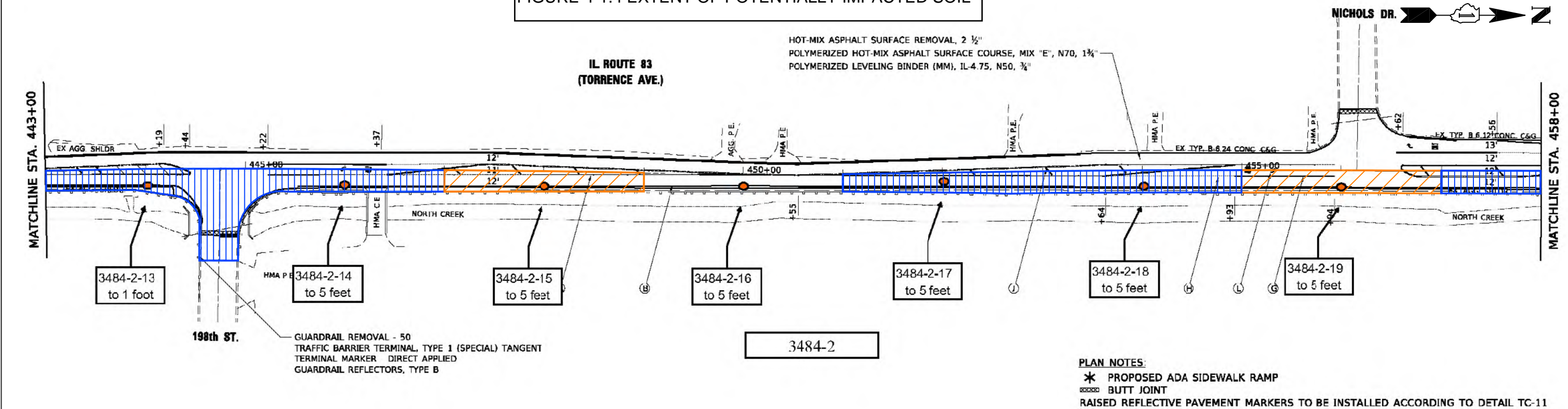
LEGEND

- 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.

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN IL 83 (I-80 TO GLENWOOD DYER ROAD)				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -		2937	(3076-1 & 3077) RS-1	COOK	6	2				
	PLOT SCALE =	CHECKED -	REVISED -		CONTRACT NO. NO 62C51								
	PLOT DATE =	DATE -	REVISED -		ILLINOIS								
	SCALE: 1" = 100'				SHEET NO. 1 OF 6	SHEETS	STA. 458+00	TO STA. 488+00					

FIGURE 4-1.4 EXTENT OF POTENTIALLY IMPACTED SOIL

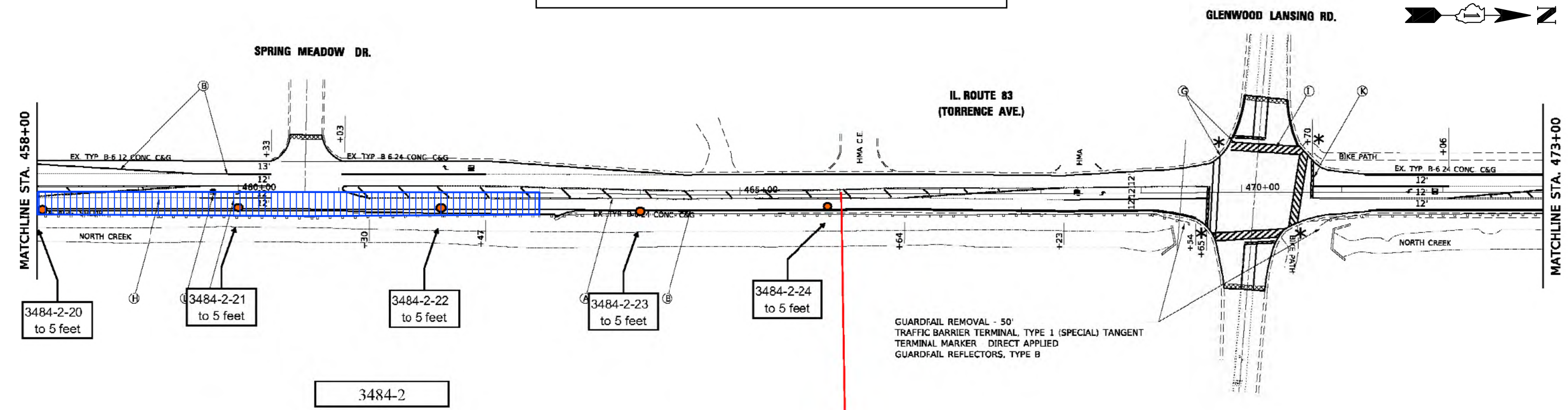


LEGEND

- 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.

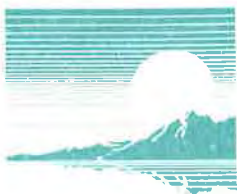
FIGURE 4-1.5 EXTENT OF POTENTIALLY IMPACTED SOIL



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.

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN IL 83 (I-80 TO GLENWOOD DYER ROAD)				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -		2937	(3076-1 & 3077) RS-1	COOK	6	5				
	PLOT SCALE =	CHECKED -	REVISED -		CONTRACT NO. NO 62C51								
	PLOT DATE =	DATE -	REVISED -		ILLINOIS								
	SCALE: 1" = 100'				SHEET NO. 1 OF 6 SHEETS STA. 458+00 TO STA. 488+00								



**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.

Project ID: Torrence Ave

Sample ID: 2-01 (0-1)

Sample No: 18-2892-001

Date Collected: 05/24/18

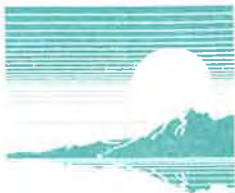
Time Collected: 9:47

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 05/25/18 14:00				
Total Solids	83.88		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 05/31/18				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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	



**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.

Project ID: Torrence Ave

Sample ID: 2-01 (0-1)

Sample No: 18-2892-001

Date Collected: 05/24/18

Time Collected: 9:47

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Results are reported on a dry weight basis.				
Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/31/18				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	

Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C	
Analysis Date: 05/25/18				Preparation Date: 05/24/18	
Acenaphthene	< 330	330	ug/kg		
Acenaphthylene	< 330	330	ug/kg		
Anthracene	< 330	330	ug/kg		
Benzidine	< 330	330	ug/kg		
Benzo(a)anthracene	< 330	330	ug/kg		
Benzo(a)pyrene	< 90	90	ug/kg		
Benzo(b)fluoranthene	< 330	330	ug/kg		
Benzo(k)fluoranthene	< 330	330	ug/kg		
Benzo(ghi)perylene	< 330	330	ug/kg		
Benzoic acid	< 330	330	ug/kg		
Benzyl alcohol	< 330	330	ug/kg		
bis(2-Chloroethoxy)methane	< 330	330	ug/kg		
bis(2-Chloroethyl)ether	< 330	330	ug/kg		
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg		
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg		
4-Bromophenyl phenyl ether	< 330	330	ug/kg		
Butyl benzyl phthalate	< 330	330	ug/kg		
Carbazole	< 330	330	ug/kg		
4-Chloroaniline	< 330	330	ug/kg		
4-Chloro-3-methylphenol	< 330	330	ug/kg		
2-Chloronaphthalene	< 330	330	ug/kg		
2-Chlorophenol	< 330	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		



**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.

Project ID: Torrence Ave

Sample ID: 2-01 (0-1)

Sample No: 18-2892-001

Date Collected: 05/24/18

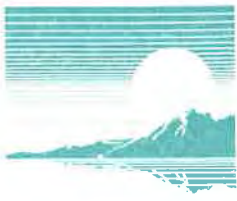
Time Collected: 9:47

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Preparation Method 3540C		
Analysis Date: 05/25/18		Preparation Date: 05/24/18		
Method: 8270C				
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	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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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: Torrence Ave
Sample ID: 2-01 (0-1)
Sample No: 18-2892-001

Date Collected: 05/24/18
Time Collected: 9:47
Date Received: 05/24/18
Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 05/25/18		Preparation Date: 05/24/18		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 05/29/18 11:25				
pH @ 25°C, 1:2	8.73		Units	
Total Metals				
Method: 6010C		Preparation Method 3050B		
Analysis Date: 05/31/18		Preparation Date: 05/25/18		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.7	1.0	mg/kg	
Barium	25.6	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	56,400	50	mg/kg	
Chromium	12.1	0.5	mg/kg	
Cobalt	5.8	0.5	mg/kg	
Copper	19.4	0.5	mg/kg	
Iron	17,800	5.0	mg/kg	
Lead	19.5	0.5	mg/kg	
Magnesium	22,500	50	mg/kg	
Manganese	259	0.5	mg/kg	
Nickel	17.7	0.5	mg/kg	
Potassium	1,140	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	473	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	17.6	1.0	mg/kg	
Zinc	47.4	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 05/25/18				
Mercury	< 0.05	0.05	mg/kg	
TCLP Metals Method 1311				
Method: 6010C		Preparation Method 3010A		
Analysis Date: 06/01/18		Preparation Date: 05/30/18		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-01 (0-1)

Sample No: 18-2892-001

Date Collected: 05/24/18

Time Collected: 9:47

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Results are reported on a dryweight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 06/01/18 Preparation Date: 05/30/18				
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.006	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.2	0.1	mg/L	
Lead	0.029	0.005	mg/L	
Manganese	7.9	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/31/18				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction Method: 1311				
Analysis Date: 05/30/18				
TCLP Extraction Complete				
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 05/31/18 Preparation Date: 05/31/18				
Arsenic	< 0.010	0.010	mg/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	3.2	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-01 (0-1)

Sample No: 18-2892-001

Date Collected: 05/24/18

Time Collected: 9:47

Date Received: 05/24/18

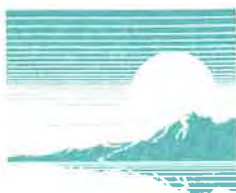
Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Mercury Method 1312	Method: 7470A			
Analysis Date: 05/31/18				
Mercury	< 0.0005	0.0005	mg/L	

SPLP Extraction	Method: 1312
Analysis Date: 05/30/18	
SPLP Metals Extraction	Complete

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	101.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.2	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	106.3	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	96.9	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	82.4	45	112
8270C	2-Fluorophenol (Surr)	%R:	63.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	88.7	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	80.4	35	105
8270C	Phenol-d5 (surr)	%R:	70.8	50	100



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-03 (0-1)

Sample No: 18-2892-003

Date Collected: 05/24/18

Time Collected: 9:52

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total	Method: 2540B			
Analysis Date: 05/25/18 14:00				
Total Solids	74.85		%	

Volatile Organic Compounds **Method: 5035A/8260B**
Analysis Date: 05/31/18

Acetone	< 200	200	ug/kg
Benzene	< 5.0	5.0	ug/kg
Bromodichloromethane	< 5.0	5.0	ug/kg
Bromoform	< 5.0	5.0	ug/kg
Bromomethane	< 10.0	10.0	ug/kg
2-Butanone (MEK)	< 100	100	ug/kg
Carbon disulfide	39.2	5.0	ug/kg
Carbon tetrachloride	< 5.0	5.0	ug/kg
Chlorobenzene	< 5.0	5.0	ug/kg
Chlorodibromomethane	< 5.0	5.0	ug/kg
Chloroethane	< 10.0	10.0	ug/kg
Chloroform	< 5.0	5.0	ug/kg
Chloromethane	< 10.0	10.0	ug/kg
1,1-Dichloroethane	< 5.0	5.0	ug/kg
1,2-Dichloroethane	< 5.0	5.0	ug/kg
1,1-Dichloroethene	< 5.0	5.0	ug/kg
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg
1,2-Dichloropropane	< 5.0	5.0	ug/kg
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg
Ethylbenzene	< 5.0	5.0	ug/kg
2-Hexanone	< 10.0	10.0	ug/kg
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg
Methylene chloride	< 20.0	20.0	ug/kg
Styrene	< 5.0	5.0	ug/kg
1,1,2,2-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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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: Torrence Ave

Sample ID: 2-03 (0-1)

Sample No: 18-2892-003

Date Collected: 05/24/18

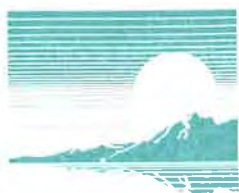
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Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Results are reported on a dry weight basis.				
Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/31/18				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C	Preparation Method 3540C	
Analysis Date: 05/25/18			Preparation Date: 05/24/18	
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	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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IL ELAP / NELAC Accreditation # 100292

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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-03 (0-1)

Sample No: 18-2892-003

Date Collected: 05/24/18

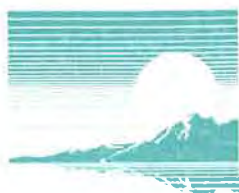
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Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Preparation Method 3540C		
Analysis Date: 05/25/18		Preparation Date: 05/24/18		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	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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IL ELAP / NELAC Accreditation # 100292

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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-03 (0-1)

Sample No: 18-2892-003

Date Collected: 05/24/18

Time Collected: 9:52

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/25/18		Preparation Date: 05/24/18		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	

pH @ 25°C, 1:2

Analysis Date: 05/29/18 11:25

Method: 9045D 2004

pH @ 25°C, 1:2

8.29

Units

Total Metals

Analysis Date: 05/31/18

Method: 6010C

Preparation Method 3050B

Preparation Date: 05/25/18

Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.1	1.0	mg/kg	
Barium	95.3	0.5	mg/kg	
Beryllium	1.0	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,560	50	mg/kg	
Chromium	25.5	0.5	mg/kg	
Cobalt	17.6	0.5	mg/kg	
Copper	19.5	0.5	mg/kg	
Iron	25,900	5.0	mg/kg	
Lead	15.7	0.5	mg/kg	
Magnesium	4,770	50	mg/kg	
Manganese	304	0.5	mg/kg	
Nickel	30.5	0.5	mg/kg	
Potassium	1,360	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.7	0.2	mg/kg	
Sodium	3,870	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	34.7	1.0	mg/kg	
Zinc	52.2	1.0	mg/kg	

Total Mercury

Analysis Date: 05/25/18

Method: 7471B

Mercury

< 0.05

0.05

mg/kg

TCLP Metals Method 1311

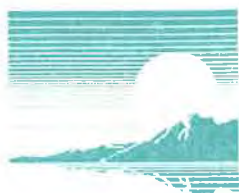
Analysis Date: 06/01/18

Method: 6010C

Preparation Method 3010A

Preparation Date: 05/30/18

Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	



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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: Torrence Ave

Sample ID: 2-03 (0-1)

Sample No: 18-2892-003

Date Collected: 05/24/18

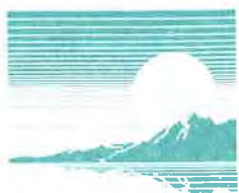
Time Collected: 9:52

Date Received: 05/24/18

Date Reported: 06/06/18

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: 06/01/18 Preparation Date: 05/30/18				
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.2	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/31/18				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction Method: 1311				
Analysis Date: 05/30/18				
TCLP Extraction	Complete			
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A Analysis Date: 05/31/18 Preparation Date: 05/31/18				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.056	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.037	0.005	mg/L	
Iron	38.9	0.1	mg/L	
Lead	0.012	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	



**First
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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: Torrence Ave

Sample ID: 2-03 (0-1)

Sample No: 18-2892-003

Date Collected: 05/24/18

Time Collected: 9:52

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Mercury Method 1312	Method: 7470A			
Analysis Date: 05/31/18				
Mercury	0.0101	0.0005	mg/L	

SPLP Extraction	Method: 1312
Analysis Date: 05/30/18	
SPLP Metals Extraction	Complete

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	101.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.2	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104.3	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	81.1	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	60.9	45	112
8270C	2-Fluorophenol (Surr)	%R:	49.4	41	84
8270C	d14-Terphenyl (Surr)	%R:	77.4	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	62.9	35	105
8270C	Phenol-d5 (surr)	%R:	55.5	50	100



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-16 (0-5)

Sample No: 18-2892-016

Date Collected: 05/24/18

Time Collected: 10:42

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total	Method: 2540B			
Analysis Date: 05/25/18 14:00				
Total Solids	78.46		%	

Volatile Organic Compounds **Method: 5035A/8260B**
Analysis Date: 05/31/18

Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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: Torrence Ave

Sample ID: 2-16 (0-5)

Sample No: 18-2892-016

Date Collected: 05/24/18

Time Collected: 10:42

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/31/18				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	

Semi-Volatile Compounds		Method: 8270C	Preparation Method 3540C	
Analysis Date: 05/29/18			Preparation Date: 05/24/18	
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	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: Torrence Ave

Sample ID: 2-16 (0-5)

Sample No: 18-2892-016

Date Collected: 05/24/18

Time Collected: 10:42

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		
Analysis Date: 05/29/18		Preparation Method 3540C		
		Preparation Date: 05/24/18		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	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: Torrence Ave

Sample ID: 2-16 (0-5)

Sample No: 18-2892-016

Date Collected: 05/24/18

Time Collected: 10:42

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/29/18		Preparation Date: 05/24/18		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	

pH @ 25°C, 1:2

Method: 9045D 2004

Analysis Date: 05/29/18 11:25

pH @ 25°C, 1:2

8.35

Units

Total Metals

Method: 6010C

Preparation Method 3050B

Analysis Date: 05/31/18

Preparation Date: 05/25/18

Antimony	< 1.0	1.0	mg/kg
Arsenic	< 1.0	1.0	mg/kg
Barium	29.6	0.5	mg/kg
Beryllium	< 0.5	0.5	mg/kg
Cadmium	< 0.5	0.5	mg/kg
Calcium	53,300	50	mg/kg
Chromium	18.7	0.5	mg/kg
Cobalt	6.9	0.5	mg/kg
Copper	11.4	0.5	mg/kg
Iron	13,400	5.0	mg/kg
Lead	8.4	0.5	mg/kg
Magnesium	26,200	50	mg/kg
Manganese	261	0.5	mg/kg
Nickel	23.7	0.5	mg/kg
Potassium	2,330	50	mg/kg
Selenium	< 1.0	1.0	mg/kg
Silver	0.4	0.2	mg/kg
Sodium	769	50	mg/kg
Thallium	< 1.0	1.0	mg/kg
Vanadium	16.4	1.0	mg/kg
Zinc	46.4	1.0	mg/kg

Total Mercury

Method: 7471B

Analysis Date: 05/29/18

Mercury

< 0.05

0.05

mg/kg

TCLP Metals Method 1311

Method: 6010C

Preparation Method 3010A

Analysis Date: 06/01/18

Preparation Date: 05/30/18

Arsenic	< 0.010	0.010	mg/L
Barium	< 1.0	1.0	mg/L



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-16 (0-5)

Sample No: 18-2892-016

Date Collected: 05/24/18

Time Collected: 10:42

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 06/01/18		Preparation Method 3010A		
		Preparation Date: 05/30/18		
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 05/31/18				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction		Method: 1311		
Analysis Date: 05/30/18				
TCLP Extraction	Complete			
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 06/01/18		Preparation Method 3010A		
		Preparation Date: 05/31/18		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.019	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.013	0.005	mg/L	
Iron	14.2	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-16 (0-5)

Sample No: 18-2892-016

Date Collected: 05/24/18

Time Collected: 10:42

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Mercury Method 1312	Method: 7470A			
Analysis Date: 05/31/18				
Mercury	< 0.0005	0.0005	mg/L	

SPLP Extraction

Method: 1312

Analysis Date: 05/30/18

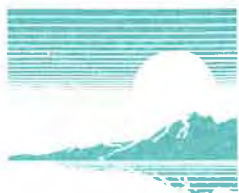
SPLP Metals Extraction

Complete

Sample QC Summary:

Surrogate Recovery

Method	Analyte	QC Result	%R Limits	
			Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 98.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 99.8	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 101.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 94.4	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 80	45	112
8270C	2-Fluorophenol (Surr)	%R: 66.6	41	84
8270C	d14-Terphenyl (Surr)	%R: 83.2	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 80.3	35	105
8270C	Phenol-d5 (surr)	%R: 70.2	50	100



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-23 (0-5)

Sample No: 18-2892-023

Date Collected: 05/24/18

Time Collected: 11:03

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total				
Method: 2540B				
Analysis Date: 05/25/18 14:00				
Total Solids	83.16		%	
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 06/01/18				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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: Torrence Ave

Sample ID: 2-23 (0-5)

Sample No: 18-2892-023

Date Collected: 05/24/18

Time Collected: 11:03

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Results are reported on a dry weight basis.				
Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 06/01/18				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 05/30/18		Preparation Date: 05/29/18		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl plthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	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: Torrence Ave

Sample ID: 2-23 (0-5)

Sample No: 18-2892-023

Date Collected: 05/24/18

Time Collected: 11:03

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/30/18		Preparation Date: 05/29/18		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	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	



**First
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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: Torrence Ave

Sample ID: 2-23 (0-5)

Sample No: 18-2892-023

Date Collected: 05/24/18

Time Collected: 11:03

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/30/18		Preparation Date: 05/29/18		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	

pH @ 25°C, 1:2

Method: 9045D 2004

Analysis Date: 05/29/18 11:25

pH @ 25°C, 1:2

8.52

Units

Total Metals

Method: 6010C

Preparation Method 3050B

Analysis Date: 05/30/18

Preparation Date: 05/25/18

Antimony	< 1.0	1.0	mg/kg
Arsenic	3.8	1.0	mg/kg
Barium	50.4	0.5	mg/kg
Beryllium	0.6	0.5	mg/kg
Cadmium	< 0.5	0.5	mg/kg
Calcium	21,700	50	mg/kg
Chromium	17.5	0.5	mg/kg
Cobalt	7.8	0.5	mg/kg
Copper	14.8	0.5	mg/kg
Iron	20,300	5.0	mg/kg
Lead	9.0	0.5	mg/kg
Magnesium	10,800	50	mg/kg
Manganese	155	0.5	mg/kg
Nickel	23.7	0.5	mg/kg
Potassium	2,790	50	mg/kg
Selenium	< 1.0	1.0	mg/kg
Silver	< 0.2	0.2	mg/kg
Sodium	965	50	mg/kg
Thallium	< 1.0	1.0	mg/kg
Vanadium	23.1	1.0	mg/kg
Zinc	35.4	1.0	mg/kg

Total Mercury

Method: 7471B

Analysis Date: 05/29/18

Mercury

< 0.05

0.05

mg/kg

TCLP Metals Method 1311

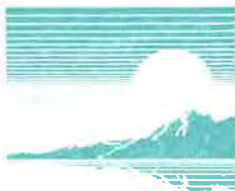
Method: 6010C

Preparation Method 3010A

Analysis Date: 06/01/18

Preparation Date: 05/30/18

Arsenic	< 0.010	0.010	mg/L
Barium	< 1.0	1.0	mg/L



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-23 (0-5)

Sample No: 18-2892-023

Date Collected: 05/24/18

Time Collected: 11:03

Date Received: 05/24/18

Date Reported: 06/06/18

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: 06/01/18		Preparation Date: 05/30/18		
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.4	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 06/01/18				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction Method: 1311				
Analysis Date: 05/30/18				
TCLP Extraction	Complete			
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 06/01/18		Preparation Date: 05/31/18		
Arsenic	< 0.010	0.010	mg/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	0.015	0.005	mg/L	
Iron	21.9	0.1	mg/L	
Lead	0.008	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	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-23 (0-5)

Sample No: 18-2892-023

Date Collected: 05/24/18

Time Collected: 11:03

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Mercury Method 1312	Method: 7470A			
Analysis Date: 05/31/18				
Mercury	< 0.0005	0.0005	mg/L	

SPLP Extraction **Method: 1312**

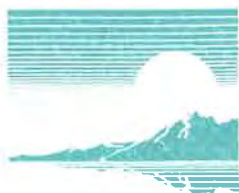
Analysis Date: 05/30/18

SPLP Metals Extraction

Complete

Sample QC Summary: **Surrogate Recovery**

Method	Analyte	QC Result	%R Limits	
			Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 99.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 100.8	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 102.1	77	120



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-24 (0-5)

Sample No: 18-2892-024

Date Collected: 05/24/18

Time Collected: 11:25

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total				
Method: 2540B				
Analysis Date: 05/25/18 14:00				
Total Solids	77.6		%	
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 06/01/18				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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: Torrence Ave

Sample ID: 2-24 (0-5)

Sample No: 18-2892-024

Date Collected: 05/24/18

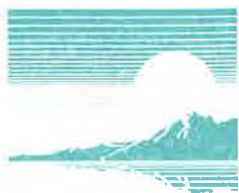
Time Collected: 11:25

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 06/01/18				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C	Preparation Method 3540C	
Analysis Date: 05/30/18		Preparation Date: 05/29/18		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	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: Torrence Ave

Sample ID: 2-24 (0-5)

Sample No: 18-2892-024

Date Collected: 05/24/18

Time Collected: 11:25

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/30/18		Preparation Date: 05/29/18		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	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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Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-24 (0-5)

Sample No: 18-2892-024

Date Collected: 05/24/18

Time Collected: 11:25

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/30/18		Preparation Date: 05/29/18		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	

pH @ 25°C, 1:2

Method: 9045D 2004

Analysis Date: 05/29/18 11:25

pH @ 25°C, 1:2

8.41

Units

Total Metals

Method: 6010C

Preparation Method 3050B

Analysis Date: 05/30/18

Preparation Date: 05/25/18

Antimony	< 1.0	1.0	mg/kg
Arsenic	2.5	1.0	mg/kg
Barium	34.7	0.5	mg/kg
Beryllium	0.8	0.5	mg/kg
Cadmium	< 0.5	0.5	mg/kg
Calcium	2,770	50	mg/kg
Chromium	20.2	0.5	mg/kg
Cobalt	9.3	0.5	mg/kg
Copper	14.4	0.5	mg/kg
Iron	17,300	5.0	mg/kg
Lead	11.5	0.5	mg/kg
Magnesium	4,480	50	mg/kg
Manganese	131	0.5	mg/kg
Nickel	26.2	0.5	mg/kg
Potassium	3,010	50	mg/kg
Selenium	< 1.0	1.0	mg/kg
Silver	< 0.2	0.2	mg/kg
Sodium	1,590	50	mg/kg
Thallium	< 1.0	1.0	mg/kg
Vanadium	22.0	1.0	mg/kg
Zinc	41.8	1.0	mg/kg

Total Mercury

Method: 7471B

Analysis Date: 05/29/18

Mercury

< 0.05

0.05

mg/kg

TCLP Metals Method 1311

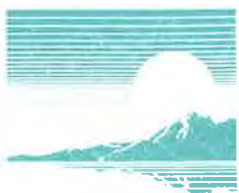
Method: 6010C

Preparation Method 3010A

Analysis Date: 06/01/18

Preparation Date: 05/30/18

Arsenic	< 0.010	0.010	mg/L
Barium	< 1.0	1.0	mg/L



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-24 (0-5)

Sample No: 18-2892-024

Date Collected: 05/24/18

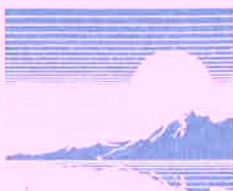
Time Collected: 11:25

Date Received: 05/24/18

Date Reported: 06/06/18

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: 06/01/18 Preparation Date: 05/30/18				
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.4	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A Analysis Date: 06/01/18				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction Method: 1311 Analysis Date: 05/30/18 TCLP Extraction Complete				
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A Analysis Date: 06/01/18 Preparation Date: 05/31/18				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.012	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.007	0.005	mg/L	
Iron	8.8	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-24 (0-5)

Sample No: 18-2892-024

Date Collected: 05/24/18

Time Collected: 11:25

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Mercury Method 1312	Method: 7470A			
Analysis Date: 05/31/18				
Mercury	< 0.0005	0.0005	mg/L	

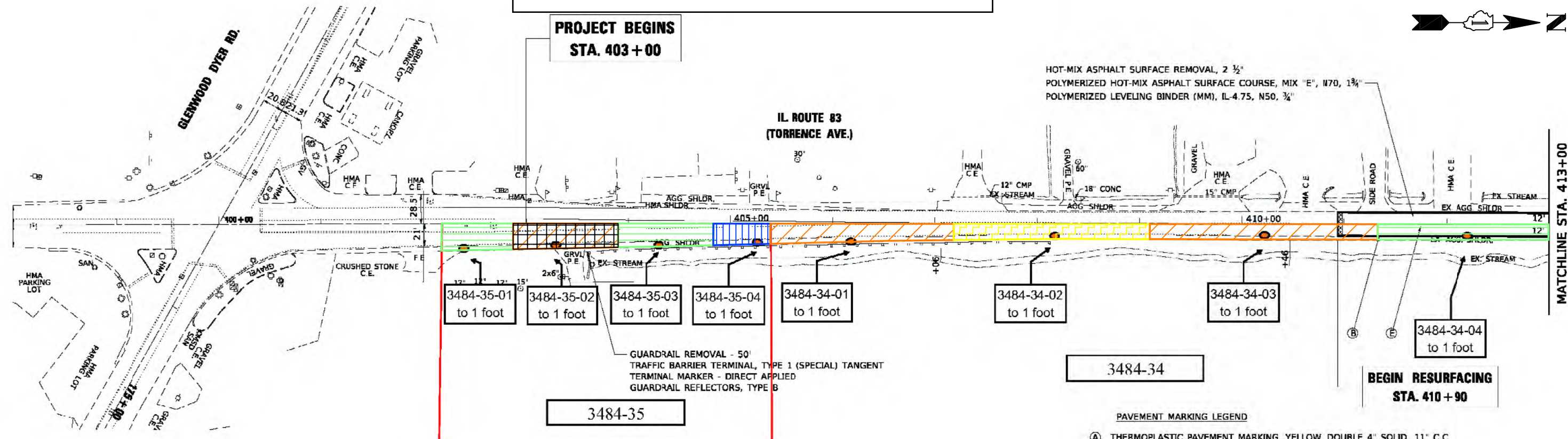
SPLP Extraction **Method: 1312**

Analysis Date: 05/30/18

SPLP Metals Extraction Complete

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:	100.7	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	101.6	77 -	120

FIGURE 4-1.1 EXTENT OF POTENTIALLY IMPACTED SOIL



LEGEND

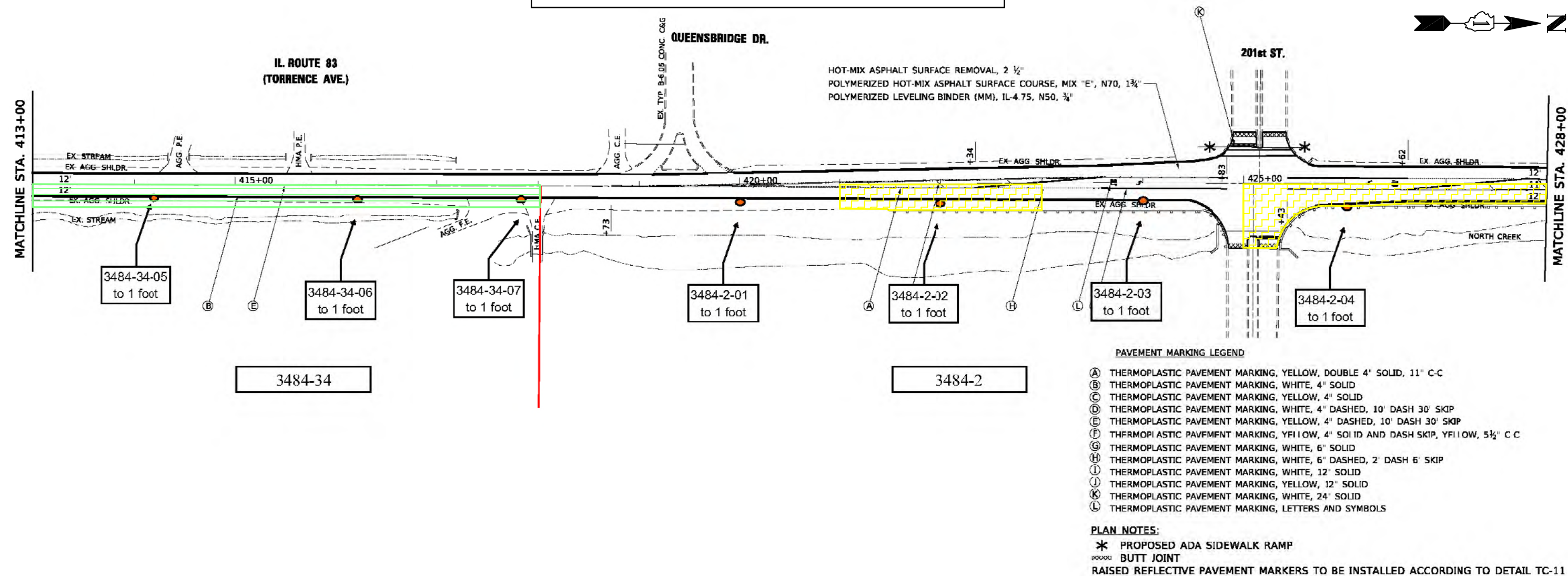
- SOIL BORING LOCATION
- IDENTIFIED SITE WITH EXCAVATION
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < BACKGROUND). MATERIAL MAY BE MANAGED ON SITE OR AS NON-SPECIAL WASTE (a(1)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL 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)).
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- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS. MATERIAL MAY BE MANAGED AS A NON-SPECIAL WASTE (a(5)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO NOT EXCEED MOST STRINGENT MAC VALUE WITH SOIL pH OUTSIDE RANGE 6.25-9.0 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.

- PAVEMENT MARKING LEGEND**
- (A) THERMOPLASTIC PAVEMENT MARKING, YELLOW, DOUBLE 4" SOLID, 11" C C
 - (B) THERMOPLASTIC PAVEMENT MARKING, WHITE, 4" SOLID
 - (C) THERMOPLASTIC PAVEMENT MARKING, YELLOW, 4" SOLID
 - (D) THERMOPLASTIC PAVEMENT MARKING, WHITE, 4" DASHED, 10' DASH 30' SKIP
 - (E) THERMOPLASTIC PAVEMENT MARKING, YELLOW, 4" DASHED, 10' DASH 30' SKIP
 - (F) THERMOPLASTIC PAVEMENT MARKING, YELLOW, 4" SOLID AND DASH-SKIP, YELLOW, 5 1/2" C-C
 - (G) THERMOPLASTIC PAVEMENT MARKING, WHITE, 6" SOLID
 - (H) THERMOPLASTIC PAVEMENT MARKING, WHITE, 6" DASHED, 2' DASH 6' SKIP
 - (I) THERMOPLASTIC PAVEMENT MARKING, WHITE, 12" SOLID
 - (J) THERMOPLASTIC PAVEMENT MARKING, YELLOW, 12" SOLID
 - (K) THERMOPLASTIC PAVEMENT MARKING, WHITE, 24" SOLID
 - (L) THERMOPLASTIC PAVEMENT MARKING, LETTERS AND SYMBOLS

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN IL 83 (I-80 TO GLENWOOD DYER ROAD)				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -						2937	(3076-1 & 3077) RS-1	COOK	6	1
	PLOT SCALE =	CHECKED -	REVISED -		CONTRACT NO. NO 62CS1								
	PLOT DATE =	DATE -	REVISED -		ILLINOIS								
	SCALE: 1" = 100'				SHEET NO. 1 OF 6	SHEETS	STA. 458+00	TO STA. 488+00					

FIGURE 4-1.2 EXTENT OF POTENTIALLY IMPACTED SOIL

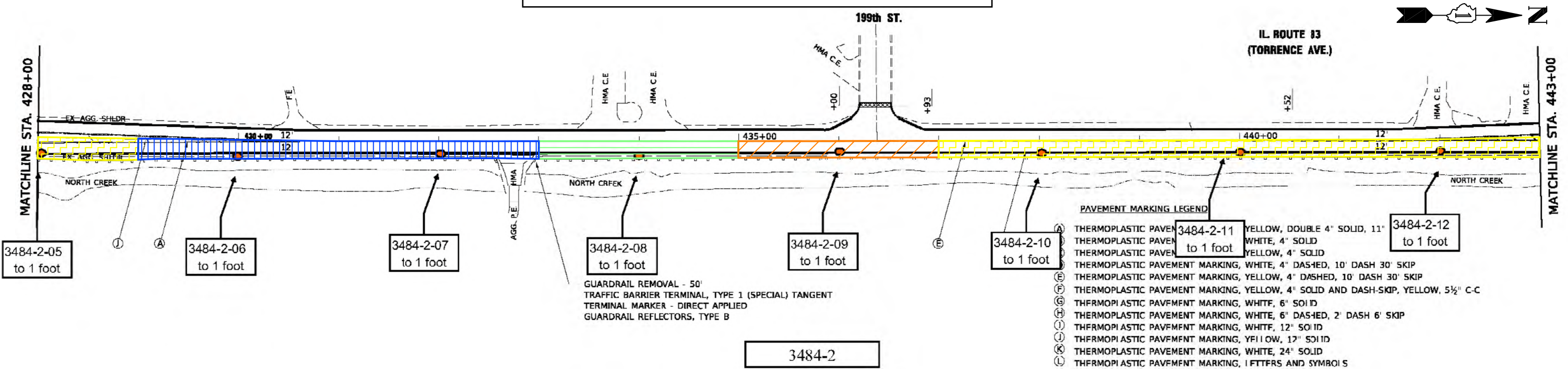


LEGEND

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

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN IL 83 (I-80 TO GLENWOOD DYER ROAD)				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -		2937	(3076-1 & 3077) RS-1	COOK	6	2				
	PLOT SCALE =	CHECKED -	REVISED -		CONTRACT NO. NO 62C51								
	PLOT DATE =	DATE -	REVISED -		ILLINOIS								
	SCALE: 1" = 100'				SHEET NO. 1 OF 6 SHEETS	STA. 458+00	TO STA. 488+00						

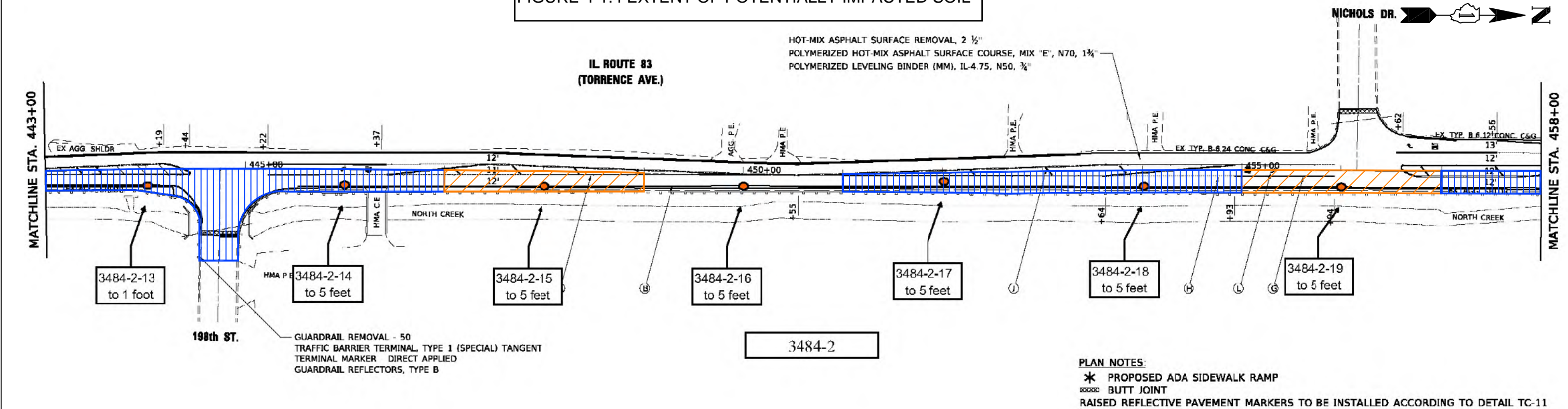
FIGURE 4-1.3 EXTENT OF POTENTIALLY IMPACTED SOIL



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.	

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN IL 83 (I-80 TO GLENWOOD DYER ROAD)					F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -		2937	(3076-1 & 3077) RS-1	COOK	6	3					
	PLOT SCALE =	CHECKED -	REVISED -				CONTRACT NO.		NO 62C51					
	PLOT DATE =	DATE -	REVISED -		SCALE: 1" = 100'	SHEET NO. 1 OF 6 SHEETS	STA. 458+00	TO STA. 488+00	ILLINOIS					

FIGURE 4-1.4 EXTENT OF POTENTIALLY IMPACTED SOIL

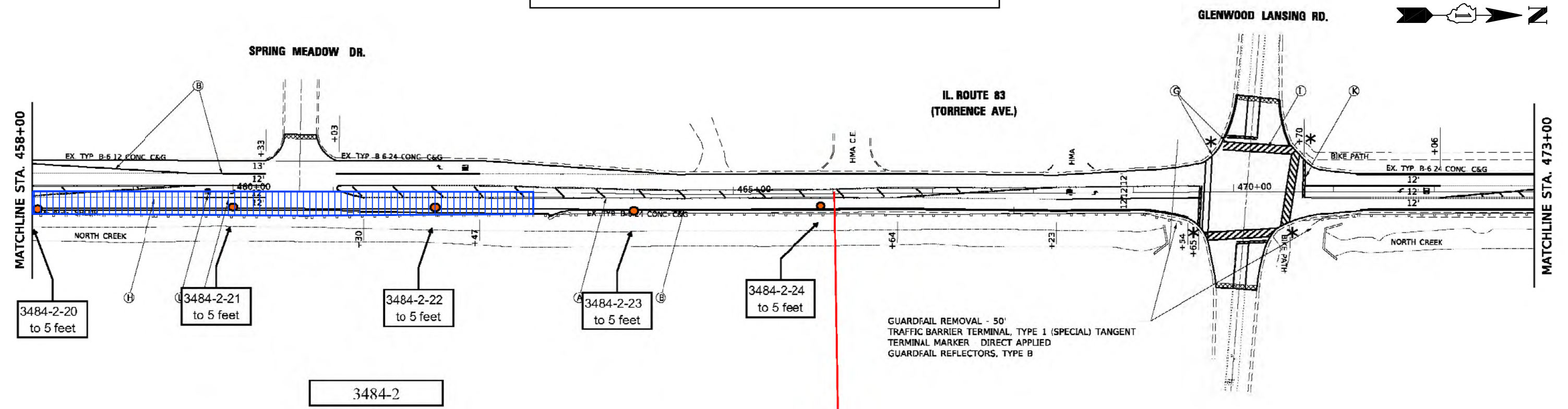


LEGEND

- 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)).
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- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED TACO TIER 1 CONSTRUCTION WORKERS REFERENCE CONCENTRATIONS.

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

FIGURE 4-1.5 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)).
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		DRAWN -	REVISED -						2937	(3076-1 & 3077) RS-1	COOK	6	5
	PLOT SCALE =	CHECKED -	REVISED -		CONTRACT NO. NO 62C51								
	PLOT DATE =	DATE -	REVISED -		ILLINOIS								
					SCALE: 1" = 100'	SHEET NO. 1 OF 6 SHEETS	STA. 458+00	TO STA. 488+00					



**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.

Project ID: Torrence Ave

Sample ID: 2-01 (0-1)

Sample No: 18-2892-001

Date Collected: 05/24/18

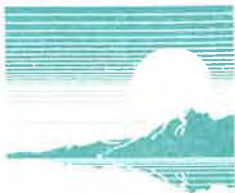
Time Collected: 9:47

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 05/25/18 14:00				
Total Solids	83.88		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 05/31/18				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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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Sample ID: 2-01 (0-1)

Sample No: 18-2892-001

Date Collected: 05/24/18

Time Collected: 9:47

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/31/18				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	

Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C	
Analysis Date: 05/25/18				Preparation Date: 05/24/18	
Acenaphthene	< 330	330	ug/kg		
Acenaphthylene	< 330	330	ug/kg		
Anthracene	< 330	330	ug/kg		
Benzidine	< 330	330	ug/kg		
Benzo(a)anthracene	< 330	330	ug/kg		
Benzo(a)pyrene	< 90	90	ug/kg		
Benzo(b)fluoranthene	< 330	330	ug/kg		
Benzo(k)fluoranthene	< 330	330	ug/kg		
Benzo(ghi)perylene	< 330	330	ug/kg		
Benzoic acid	< 330	330	ug/kg		
Benzyl alcohol	< 330	330	ug/kg		
bis(2-Chloroethoxy)methane	< 330	330	ug/kg		
bis(2-Chloroethyl)ether	< 330	330	ug/kg		
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg		
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg		
4-Bromophenyl phenyl ether	< 330	330	ug/kg		
Butyl benzyl phthalate	< 330	330	ug/kg		
Carbazole	< 330	330	ug/kg		
4-Chloroaniline	< 330	330	ug/kg		
4-Chloro-3-methylphenol	< 330	330	ug/kg		
2-Chloronaphthalene	< 330	330	ug/kg		
2-Chlorophenol	< 330	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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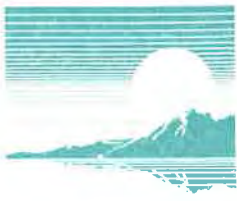
Time Collected: 9:47

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Preparation Method 3540C		
Analysis Date: 05/25/18		Preparation Date: 05/24/18		
Method: 8270C				
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	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

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Sample No: 18-2892-001

Date Collected: 05/24/18
Time Collected: 9:47
Date Received: 05/24/18
Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 05/25/18		Preparation Date: 05/24/18		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 05/29/18 11:25				
pH @ 25°C, 1:2	8.73		Units	
Total Metals				
Method: 6010C		Preparation Method 3050B		
Analysis Date: 05/31/18		Preparation Date: 05/25/18		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.7	1.0	mg/kg	
Barium	25.6	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	56,400	50	mg/kg	
Chromium	12.1	0.5	mg/kg	
Cobalt	5.8	0.5	mg/kg	
Copper	19.4	0.5	mg/kg	
Iron	17,800	5.0	mg/kg	
Lead	19.5	0.5	mg/kg	
Magnesium	22,500	50	mg/kg	
Manganese	259	0.5	mg/kg	
Nickel	17.7	0.5	mg/kg	
Potassium	1,140	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	473	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	17.6	1.0	mg/kg	
Zinc	47.4	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 05/25/18				
Mercury	< 0.05	0.05	mg/kg	
TCLP Metals Method 1311				
Method: 6010C		Preparation Method 3010A		
Analysis Date: 06/01/18		Preparation Date: 05/30/18		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	



**First
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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: Torrence Ave

Sample ID: 2-01 (0-1)

Sample No: 18-2892-001

Date Collected: 05/24/18

Time Collected: 9:47

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

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: 06/01/18 Preparation Date: 05/30/18				
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.006	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.2	0.1	mg/L	
Lead	0.029	0.005	mg/L	
Manganese	7.9	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/31/18				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction Method: 1311				
Analysis Date: 05/30/18				
TCLP Extraction Complete				
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 05/31/18 Preparation Date: 05/31/18				
Arsenic	< 0.010	0.010	mg/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	3.2	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-01 (0-1)

Sample No: 18-2892-001

Date Collected: 05/24/18

Time Collected: 9:47

Date Received: 05/24/18

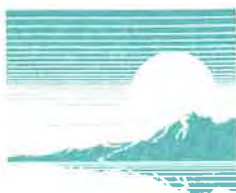
Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Mercury Method 1312	Method: 7470A			
Analysis Date: 05/31/18				
Mercury	< 0.0005	0.0005	mg/L	

SPLP Extraction	Method: 1312
Analysis Date: 05/30/18	
SPLP Metals Extraction	Complete

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	101.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.2	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	106.3	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	96.9	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	82.4	45	112
8270C	2-Fluorophenol (Surr)	%R:	63.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	88.7	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	80.4	35	105
8270C	Phenol-d5 (surr)	%R:	70.8	50	100



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-03 (0-1)

Sample No: 18-2892-003

Date Collected: 05/24/18

Time Collected: 9:52

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total				
Analysis Date: 05/25/18 14:00				
Total Solids	74.85		%	

Volatile Organic Compounds

Method: 5035A/8260B

Analysis Date: 05/31/18

Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	39.2	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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: Torrence Ave

Sample ID: 2-03 (0-1)

Sample No: 18-2892-003

Date Collected: 05/24/18

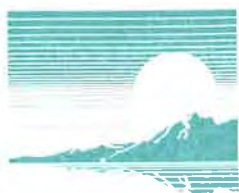
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Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/31/18				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/25/18		Preparation Date: 05/24/18		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	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: Torrence Ave

Sample ID: 2-03 (0-1)

Sample No: 18-2892-003

Date Collected: 05/24/18

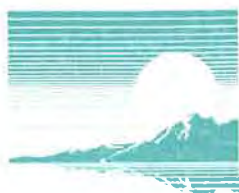
Time Collected: 9:52

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Preparation Method 3540C		
Method: 8270C		Preparation Date: 05/24/18		
Analysis Date: 05/25/18				
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	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: Torrence Ave

Sample ID: 2-03 (0-1)

Sample No: 18-2892-003

Date Collected: 05/24/18

Time Collected: 9:52

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/25/18		Preparation Date: 05/24/18		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	

pH @ 25°C, 1:2

Analysis Date: 05/29/18 11:25

Method: 9045D 2004

pH @ 25°C, 1:2

8.29

Units

Total Metals

Analysis Date: 05/31/18

Method: 6010C

Preparation Method 3050B

Preparation Date: 05/25/18

Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.1	1.0	mg/kg	
Barium	95.3	0.5	mg/kg	
Beryllium	1.0	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,560	50	mg/kg	
Chromium	25.5	0.5	mg/kg	
Cobalt	17.6	0.5	mg/kg	
Copper	19.5	0.5	mg/kg	
Iron	25,900	5.0	mg/kg	
Lead	15.7	0.5	mg/kg	
Magnesium	4,770	50	mg/kg	
Manganese	304	0.5	mg/kg	
Nickel	30.5	0.5	mg/kg	
Potassium	1,360	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.7	0.2	mg/kg	
Sodium	3,870	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	34.7	1.0	mg/kg	
Zinc	52.2	1.0	mg/kg	

Total Mercury

Analysis Date: 05/25/18

Method: 7471B

Mercury

< 0.05

0.05

mg/kg

TCLP Metals Method 1311

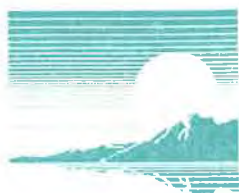
Analysis Date: 06/01/18

Method: 6010C

Preparation Method 3010A

Preparation Date: 05/30/18

Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-03 (0-1)

Sample No: 18-2892-003

Date Collected: 05/24/18

Time Collected: 9:52

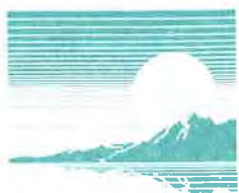
Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

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: 06/01/18		Preparation Date: 05/30/18		
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.2	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/31/18				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction Method: 1311				
Analysis Date: 05/30/18				
TCLP Extraction	Complete			
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 05/31/18		Preparation Date: 05/31/18		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.056	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.037	0.005	mg/L	
Iron	38.9	0.1	mg/L	
Lead	0.012	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	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-03 (0-1)

Sample No: 18-2892-003

Date Collected: 05/24/18

Time Collected: 9:52

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Mercury Method 1312	Method: 7470A			
Analysis Date: 05/31/18				
Mercury	0.0101	0.0005	mg/L	

SPLP Extraction	Method: 1312
Analysis Date: 05/30/18	
SPLP Metals Extraction	Complete

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	101.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.2	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104.3	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	81.1	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	60.9	45	112
8270C	2-Fluorophenol (Surr)	%R:	49.4	41	84
8270C	d14-Terphenyl (Surr)	%R:	77.4	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	62.9	35	105
8270C	Phenol-d5 (surr)	%R:	55.5	50	100



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-16 (0-5)

Sample No: 18-2892-016

Date Collected: 05/24/18

Time Collected: 10:42

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total	Method: 2540B			
Analysis Date: 05/25/18 14:00				
Total Solids	78.46		%	

Volatile Organic Compounds **Method: 5035A/8260B**

Analysis Date: 05/31/18

Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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: Torrence Ave

Sample ID: 2-16 (0-5)

Sample No: 18-2892-016

Date Collected: 05/24/18

Time Collected: 10:42

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/31/18				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	

Semi-Volatile Compounds		Method: 8270C	Preparation Method 3540C	
Analysis Date: 05/29/18			Preparation Date: 05/24/18	
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	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	



**First
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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: Torrence Ave

Sample ID: 2-16 (0-5)

Sample No: 18-2892-016

Date Collected: 05/24/18

Time Collected: 10:42

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		
Analysis Date: 05/29/18		Preparation Method 3540C		
		Preparation Date: 05/24/18		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	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: Torrence Ave

Sample ID: 2-16 (0-5)

Sample No: 18-2892-016

Date Collected: 05/24/18

Time Collected: 10:42

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/29/18		Preparation Date: 05/24/18		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	

pH @ 25°C, 1:2

Method: 9045D 2004

Analysis Date: 05/29/18 11:25

pH @ 25°C, 1:2

8.35

Units

Total Metals

Method: 6010C

Preparation Method 3050B

Analysis Date: 05/31/18

Preparation Date: 05/25/18

Antimony	< 1.0	1.0	mg/kg
Arsenic	< 1.0	1.0	mg/kg
Barium	29.6	0.5	mg/kg
Beryllium	< 0.5	0.5	mg/kg
Cadmium	< 0.5	0.5	mg/kg
Calcium	53,300	50	mg/kg
Chromium	18.7	0.5	mg/kg
Cobalt	6.9	0.5	mg/kg
Copper	11.4	0.5	mg/kg
Iron	13,400	5.0	mg/kg
Lead	8.4	0.5	mg/kg
Magnesium	26,200	50	mg/kg
Manganese	261	0.5	mg/kg
Nickel	23.7	0.5	mg/kg
Potassium	2,330	50	mg/kg
Selenium	< 1.0	1.0	mg/kg
Silver	0.4	0.2	mg/kg
Sodium	769	50	mg/kg
Thallium	< 1.0	1.0	mg/kg
Vanadium	16.4	1.0	mg/kg
Zinc	46.4	1.0	mg/kg

Total Mercury

Method: 7471B

Analysis Date: 05/29/18

Mercury

< 0.05

0.05

mg/kg

TCLP Metals Method 1311

Method: 6010C

Preparation Method 3010A

Analysis Date: 06/01/18

Preparation Date: 05/30/18

Arsenic	< 0.010	0.010	mg/L
Barium	< 1.0	1.0	mg/L



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-16 (0-5)

Sample No: 18-2892-016

Date Collected: 05/24/18

Time Collected: 10:42

Date Received: 05/24/18

Date Reported: 06/06/18

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: 06/01/18		Preparation Date: 05/30/18		
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/31/18				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction Method: 1311				
Analysis Date: 05/30/18				
TCLP Extraction	Complete			
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 06/01/18		Preparation Date: 05/31/18		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.019	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.013	0.005	mg/L	
Iron	14.2	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-16 (0-5)

Sample No: 18-2892-016

Date Collected: 05/24/18

Time Collected: 10:42

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Mercury Method 1312	Method: 7470A			
Analysis Date: 05/31/18				
Mercury	< 0.0005	0.0005	mg/L	

SPLP Extraction

Method: 1312

Analysis Date: 05/30/18

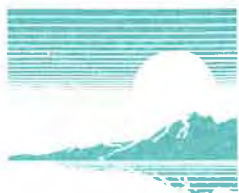
SPLP Metals Extraction

Complete

Sample QC Summary:

Surrogate Recovery

Method	Analyte	QC Result	%R Limits	
			Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 98.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 99.8	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 101.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 94.4	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 80	45	112
8270C	2-Fluorophenol (Surr)	%R: 66.6	41	84
8270C	d14-Terphenyl (Surr)	%R: 83.2	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 80.3	35	105
8270C	Phenol-d5 (surr)	%R: 70.2	50	100



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-23 (0-5)

Sample No: 18-2892-023

Date Collected: 05/24/18

Time Collected: 11:03

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 05/25/18 14:00				
Total Solids	83.16		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 06/01/18				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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: Torrence Ave

Sample ID: 2-23 (0-5)

Sample No: 18-2892-023

Date Collected: 05/24/18

Time Collected: 11:03

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Results are reported on a dry weight basis.				
Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 06/01/18				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 05/30/18		Preparation Date: 05/29/18		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl plthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	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: Torrence Ave

Sample ID: 2-23 (0-5)

Sample No: 18-2892-023

Date Collected: 05/24/18

Time Collected: 11:03

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		
Analysis Date: 05/30/18		Preparation Method 3540C		
		Preparation Date: 05/29/18		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	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: Torrence Ave

Sample ID: 2-23 (0-5)

Sample No: 18-2892-023

Date Collected: 05/24/18

Time Collected: 11:03

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/30/18		Preparation Date: 05/29/18		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	

pH @ 25°C, 1:2

Method: 9045D 2004

Analysis Date: 05/29/18 11:25

pH @ 25°C, 1:2

8.52

Units

Total Metals

Method: 6010C

Preparation Method 3050B

Analysis Date: 05/30/18

Preparation Date: 05/25/18

Antimony	< 1.0	1.0	mg/kg
Arsenic	3.8	1.0	mg/kg
Barium	50.4	0.5	mg/kg
Beryllium	0.6	0.5	mg/kg
Cadmium	< 0.5	0.5	mg/kg
Calcium	21,700	50	mg/kg
Chromium	17.5	0.5	mg/kg
Cobalt	7.8	0.5	mg/kg
Copper	14.8	0.5	mg/kg
Iron	20,300	5.0	mg/kg
Lead	9.0	0.5	mg/kg
Magnesium	10,800	50	mg/kg
Manganese	155	0.5	mg/kg
Nickel	23.7	0.5	mg/kg
Potassium	2,790	50	mg/kg
Selenium	< 1.0	1.0	mg/kg
Silver	< 0.2	0.2	mg/kg
Sodium	965	50	mg/kg
Thallium	< 1.0	1.0	mg/kg
Vanadium	23.1	1.0	mg/kg
Zinc	35.4	1.0	mg/kg

Total Mercury

Method: 7471B

Analysis Date: 05/29/18

Mercury

< 0.05

0.05

mg/kg

TCLP Metals Method 1311

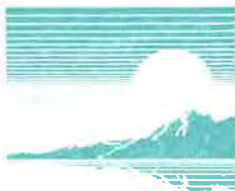
Method: 6010C

Preparation Method 3010A

Analysis Date: 06/01/18

Preparation Date: 05/30/18

Arsenic	< 0.010	0.010	mg/L
Barium	< 1.0	1.0	mg/L



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-23 (0-5)

Sample No: 18-2892-023

Date Collected: 05/24/18

Time Collected: 11:03

Date Received: 05/24/18

Date Reported: 06/06/18

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: 06/01/18		Preparation Date: 05/30/18		
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.4	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 06/01/18				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction Method: 1311				
Analysis Date: 05/30/18				
TCLP Extraction	Complete			
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 06/01/18		Preparation Date: 05/31/18		
Arsenic	< 0.010	0.010	mg/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	0.015	0.005	mg/L	
Iron	21.9	0.1	mg/L	
Lead	0.008	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	



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IL ELAP / NELAC Accreditation # 100292

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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-23 (0-5)

Sample No: 18-2892-023

Date Collected: 05/24/18

Time Collected: 11:03

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

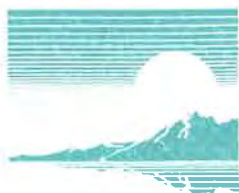
Analyte	Result	R.L.	Units	Flags
SPLP Mercury Method 1312	Method: 7470A			
Analysis Date: 05/31/18				
Mercury	< 0.0005	0.0005	mg/L	

SPLP Extraction **Method: 1312**

Analysis Date: 05/30/18

SPLP Metals Extraction Complete

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.8	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	102.1	77	120



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-24 (0-5)

Sample No: 18-2892-024

Date Collected: 05/24/18

Time Collected: 11:25

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total				
Method: 2540B				
Analysis Date: 05/25/18 14:00				
Total Solids	77.6		%	
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 06/01/18				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-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: Torrence Ave

Sample ID: 2-24 (0-5)

Sample No: 18-2892-024

Date Collected: 05/24/18

Time Collected: 11:25

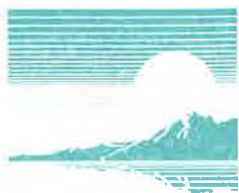
Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 06/01/18				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	

Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C	
Analysis Date: 05/30/18		Preparation Date: 05/29/18	
Acenaphthene	< 330	330	ug/kg
Acenaphthylene	< 330	330	ug/kg
Anthracene	< 330	330	ug/kg
Benztidine	< 330	330	ug/kg
Benzo(a)anthracene	< 330	330	ug/kg
Benzo(a)pyrene	< 90	90	ug/kg
Benzo(b)fluoranthene	< 330	330	ug/kg
Benzo(k)fluoranthene	< 330	330	ug/kg
Benzo(ghi)perylene	< 330	330	ug/kg
Benzoic acid	< 330	330	ug/kg
Benzyl alcohol	< 330	330	ug/kg
bis(2-Chloroethoxy)methane	< 330	330	ug/kg
bis(2-Chloroethyl)ether	< 330	330	ug/kg
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg
4-Bromophenyl phenyl ether	< 330	330	ug/kg
Butyl benzyl phthalate	< 330	330	ug/kg
Carbazole	< 330	330	ug/kg
4-Chloroaniline	< 330	330	ug/kg
4-Chloro-3-methylphenol	< 330	330	ug/kg
2-Chloronaphthalene	< 330	330	ug/kg
2-Chlorophenol	< 330	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: Torrence Ave

Sample ID: 2-24 (0-5)

Sample No: 18-2892-024

Date Collected: 05/24/18

Time Collected: 11:25

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/30/18		Preparation Date: 05/29/18		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	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: Torrence Ave

Sample ID: 2-24 (0-5)

Sample No: 18-2892-024

Date Collected: 05/24/18

Time Collected: 11:25

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/30/18		Preparation Date: 05/29/18		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	

pH @ 25°C, 1:2

Method: 9045D 2004

Analysis Date: 05/29/18 11:25

pH @ 25°C, 1:2

8.41

Units

Total Metals

Method: 6010C

Preparation Method 3050B

Analysis Date: 05/30/18

Preparation Date: 05/25/18

Antimony	< 1.0	1.0	mg/kg
Arsenic	2.5	1.0	mg/kg
Barium	34.7	0.5	mg/kg
Beryllium	0.8	0.5	mg/kg
Cadmium	< 0.5	0.5	mg/kg
Calcium	2,770	50	mg/kg
Chromium	20.2	0.5	mg/kg
Cobalt	9.3	0.5	mg/kg
Copper	14.4	0.5	mg/kg
Iron	17,300	5.0	mg/kg
Lead	11.5	0.5	mg/kg
Magnesium	4,480	50	mg/kg
Manganese	131	0.5	mg/kg
Nickel	26.2	0.5	mg/kg
Potassium	3,010	50	mg/kg
Selenium	< 1.0	1.0	mg/kg
Silver	< 0.2	0.2	mg/kg
Sodium	1,590	50	mg/kg
Thallium	< 1.0	1.0	mg/kg
Vanadium	22.0	1.0	mg/kg
Zinc	41.8	1.0	mg/kg

Total Mercury

Method: 7471B

Analysis Date: 05/29/18

Mercury

< 0.05

0.05

mg/kg

TCLP Metals Method 1311

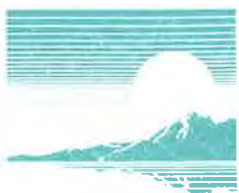
Method: 6010C

Preparation Method 3010A

Analysis Date: 06/01/18

Preparation Date: 05/30/18

Arsenic	< 0.010	0.010	mg/L
Barium	< 1.0	1.0	mg/L



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-24 (0-5)

Sample No: 18-2892-024

Date Collected: 05/24/18

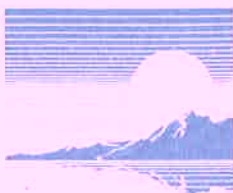
Time Collected: 11:25

Date Received: 05/24/18

Date Reported: 06/06/18

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: 06/01/18		Preparation Date: 05/30/18		
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.4	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 06/01/18				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction Method: 1311				
Analysis Date: 05/30/18				
TCLP Extraction	Complete			
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 06/01/18		Preparation Date: 05/31/18		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.012	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.007	0.005	mg/L	
Iron	8.8	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: Torrence Ave

Sample ID: 2-24 (0-5)

Sample No: 18-2892-024

Date Collected: 05/24/18

Time Collected: 11:25

Date Received: 05/24/18

Date Reported: 06/06/18

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Mercury Method 1312	Method: 7470A			
Analysis Date: 05/31/18				
Mercury	< 0.0005	0.0005	mg/L	

SPLP Extraction **Method: 1312**

Analysis Date: 05/30/18

SPLP Metals Extraction Complete

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:	100.7	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	101.6	77 -	120