



## **APPENDIX D**

### **LPC-663 CCDD DOCUMENTS**



# Illinois Environmental Protection Agency

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

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

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

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

### I. Source Location Information

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

Project Name: IL Route 53 / US Route12 / IL- Route 68(Dundee Rd) Office Phone Number, if available: 847-705-4122

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

2171V2-3 (700 block E. Dundee), 2171V2-8 (866 E. Dundee), 2171V2-16 (1098 E. Dundee), 2171V2-18 (1102 E. Dundee), 2171V2-20 (1114 E. Dundee), 2171V2-25 (1151 E. Dundee), 2171V2-33 (1240-1252 E. Dundee), 2171V2-40 (1400 E. Dundee)

City: Palatine State: IL Zip Code: 60074

County: Cook Township: Palatine

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

Latitude: 42.14 Longitude: - 88.01

(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: \_\_\_\_\_

Approximate Start Date (mm/dd/yyyy): 11/8/2019 Approximate End Date (mm/dd/yyyy): \_\_\_\_\_

Estimated Volume of debris (cu. Yd.): 350

### II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Dept of Transportation, District 1

Street Address: 201 W. Center Court

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Dept of Transportation, District 1

Street Address: 201 W. Center Court

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

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



Uncontaminated Soil Certification

**III. Basis for Certification and Attachments**

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

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

Refer to Figures 4-1.1 through 4-1.4 in the Final PSI Rpt and borings 2171V-3-02 (Rt. 68 / 56+20, 45 RT), 2171V-8-06 (Rt. 68 / 56+88, 35 LT), 2171V-8-07 (Rt. 68 / 60+38, 35 LT), 2171V-8-10 (US-12 / 59+40, 45 LT), 2171V2-16-01 (Dundee Road 69+25 LT), 2171V2-18-01 (Dup-02) (Dundee Road 70+25 LT), 2171V2-20-01 (Dundee Road 72+00 LT), 2171V2-25-01 (Dundee Road 76+00 RT), 2171V-29-16 (Rt. 68 / 83+21, 60 LT), 2171V-29-17 (Rt. 68 / 83+79, 45 LT), 2171V-29-18 (Rt. 68 / 84+22 / 45 LT), 2171V2-40-01 (Dundee Road 91+00 LT).

- 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 STAT Analysis Corporation reports #19081187 and #17010623. Site specific table of results is attached to this form.

**IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist**

I, Jeremy J. Reynolds, P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

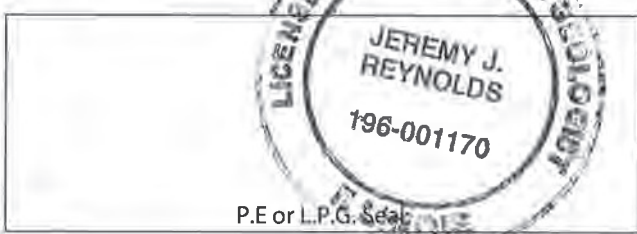
**Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))**

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

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

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

10/17/19  
Date:

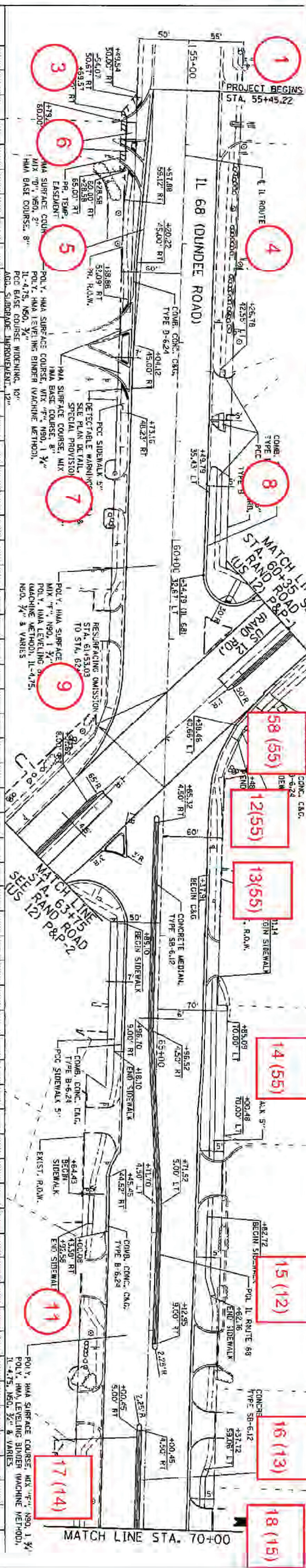
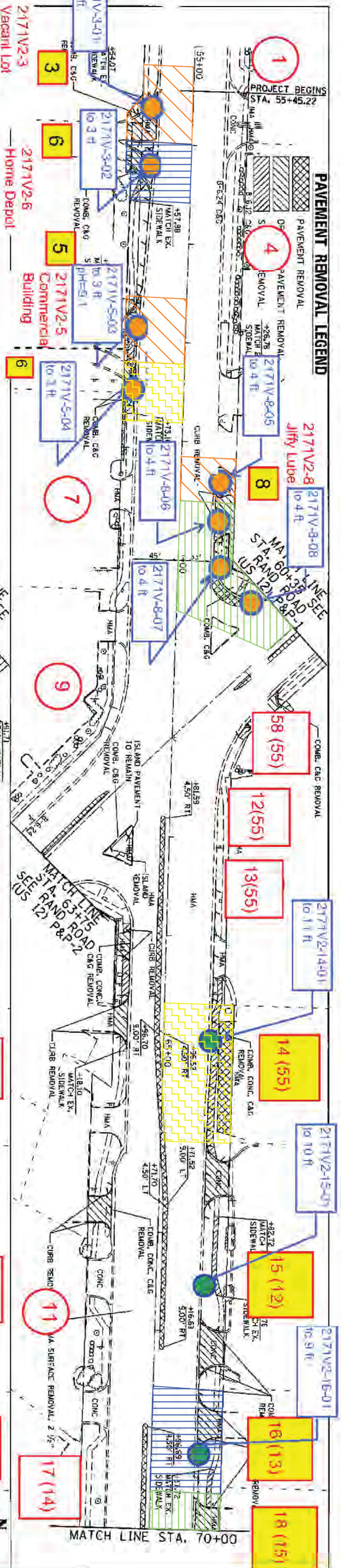




DATE	
PROJECT	2171V2-16-01
PROJECT CHECKED	RT, IS WAY CHECKED
DATE	
PROJECT	2171V2-16-01
PROJECT CHECKED	RT, IS WAY CHECKED
DATE	
PROJECT	2171V2-16-01
PROJECT CHECKED	RT, IS WAY CHECKED
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DATE	
PROJECT	2171V2-16-01
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PROJECT	2171V2-16-01
PROJECT CHECKED	RT, IS WAY CHECKED
DATE	
PROJECT	2171V2-16-01
PROJECT CHECKED	RT, IS WAY CHECKED
DATE	

**PAVEMENT REMOVAL LEGEND**



**LEGEND**

- SOIL BORING LOCATION
- IDENTIFIED SITE WITH EXCAVATION
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED SOIL REFERENCE CONCENTRATIONS (P MOST STRINGENT MAC BUT < BACKGROUND). MATERIAL MAY BE MANAGED ON SITE OR AS NON-SPECIAL WASTE (6(1)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (P MOST STRINGENT MAC BUT < MAC FOR MSA). MATERIAL MAY BE MANAGED ON-SITE OR TO A CDD/USFO WITHIN A MSA COUNTY (6(2)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (P MOST STRINGENT MAC BUT < MAC FOR MSA OR CHICAGO CORPORATE LIMITS). MATERIAL MAY BE MANAGED ON-SITE OR TO A CDD/USFO WITHIN A MSA COUNTY EXCLUDING CHICAGO OR WITHIN CHICAGO CORPORATE LIMITS (6(3)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (P MOST STRINGENT MAC BUT < MAC FOR MSA COUNTY EXCLUDING CHICAGO). MATERIAL MAY BE MANAGED ON-SITE OR TO A CDD/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 (6(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 CDD/USFO (6(1)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED TACO TIER 1 CONSTRUCTION WORKERS REFERENCE CONCENTRATIONS.
- AREAS WITHOUT SHADING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.

**LEGEND**

- PESA SITE ID NUMBER FOR 2171V2 AND (2171V)
- PESA Site Location with Excavation
- 2017 Soil Boring Location
- 2019 Soil Boring Location

736.56	735.76	735.73	734.90	733.94	734.07	733.24	732.23	732.41	731.58	730.72	730.75	729.92	729.01	729.09	728.26	727.29	727.43	726.60	725.63	725.81	725.16	724.50	724.63	724.11	723.37	723.19	723.25	722.68	723.04	722.85	722.49	722.66
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**FIGURE 4-1.1 EXTENT OF POTENTIALLY IMPACTED SOIL**  
**HUFF & HUFF, INC. WO#01D**  
 STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION  
 SHEET 343 OF 343

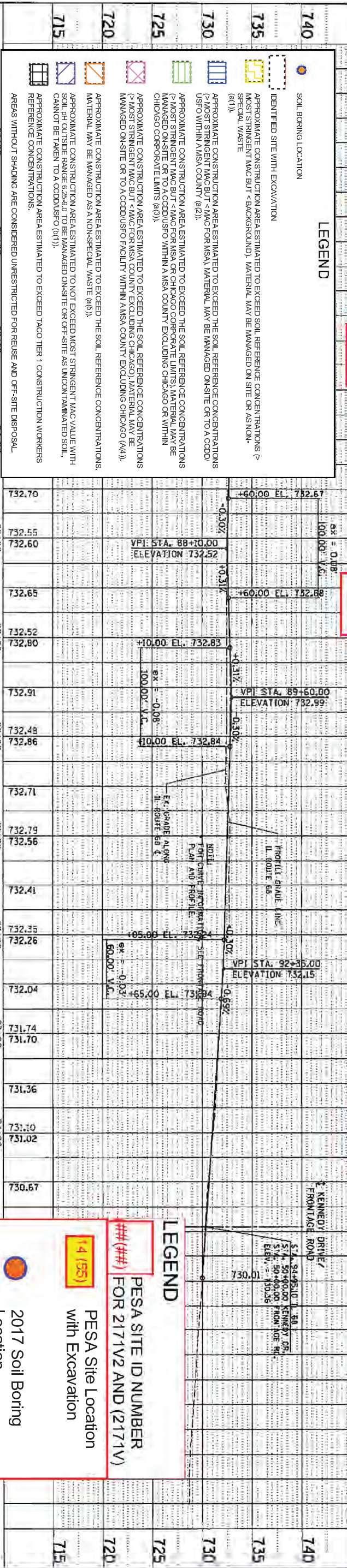
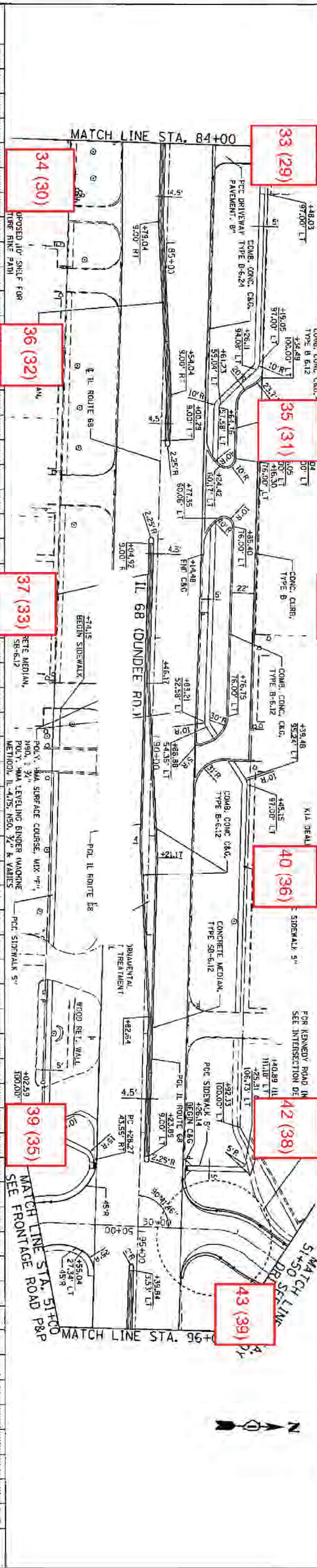
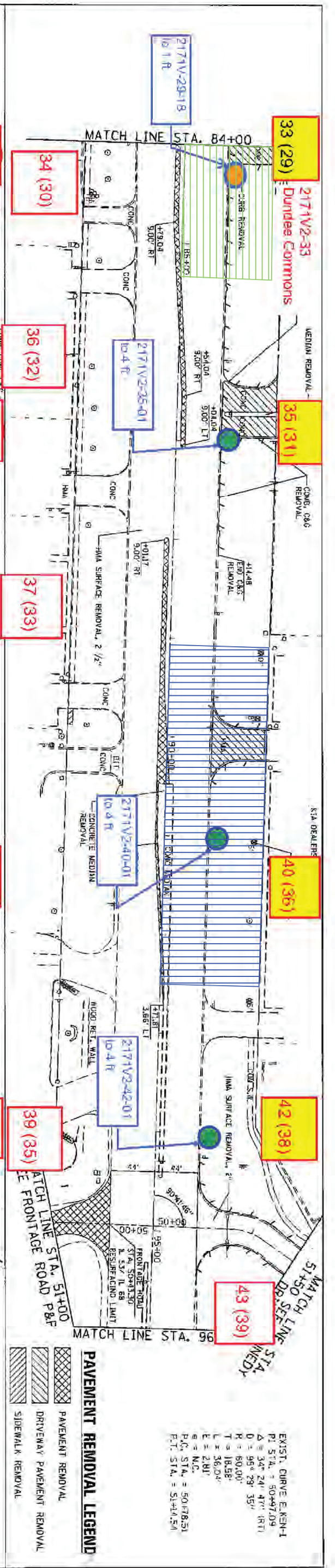






PLAN	REVISIONS
NO. 1	DATE
NO. 2	DATE
NO. 3	DATE
NO. 4	DATE
NO. 5	DATE

DATE	BY
NO. 1	DATE
NO. 2	DATE
NO. 3	DATE
NO. 4	DATE
NO. 5	DATE



**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 USFO WITHIN AUSA COUNTY (a(2)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (C) MOST STRINGENT MAC BUT < MAC FOR MSA OR CHICAGO CORPORATE LIMITS. MATERIAL MAY BE MANAGED ON-SITE OR TO A CDDUSFO WITHIN A MSA COUNTY EXCLUDING CHICAGO OR WITHIN CHICAGO CORPORATE LIMITS (a(3)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (C) MOST STRINGENT MAC BUT < MAC FOR MSA OR CHICAGO CORPORATE LIMITS. MATERIAL MAY BE MANAGED ON-SITE OR TO A CDDUSFO 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 CDDUSFO (a(1)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED TACO TIER 1 CONSTRUCTION WORKERS REFERENCE CONCENTRATIONS.
- AREAS WITHOUT SHADING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.

732.70	84+00	85+00	86+00	87+00	88+00	89+00	90+00	91+00	92+00	93+00	94+00	95+00	96+00
732.55													
732.60													
732.65													
732.52													
732.80													
732.91													
732.48													
732.86													
732.71													
732.79													
732.56													
732.41													
732.35													
732.26													
732.04													
731.74													
731.70													
731.36													
731.10													
731.02													
730.67													

**LEGEND**

- 2017 Soil Boring Location
- 2019 Soil Boring Location
- PESA SITE ID NUMBER FOR 2171V2 AND (2171V)
- PESA Site Location with Excavation

**PAVEMENT REMOVAL LEGEND**

- PAVEMENT REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- SIDEWALK REMOVAL

EXIST. CURVE E.KEN-1  
 P.I. STA. = 50+47.09  
 Δ = 34° 24' 47" (RT)  
 D = 95° 29' 35"  
 R = 80.00'  
 T = 18.58'  
 L = 36.04'  
 E = 2.81'  
 b = N.C.  
 P.C. STA. = 50.178.51  
 E.T. STA. = 51+47.51

**FIGURE 4-1.3 EXTENT OF POTENTIALLY IMPACTED SOIL**

DEPARTMENT OF TRANSPORTATION

STATE OF ILLINOIS

HUFF & HUFF, INC. WO#01D

2019 Soil Boring Location

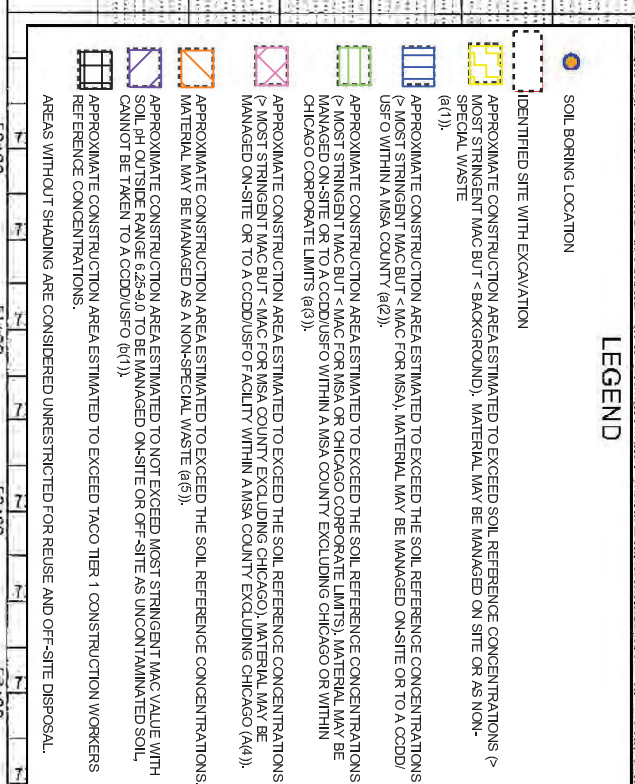
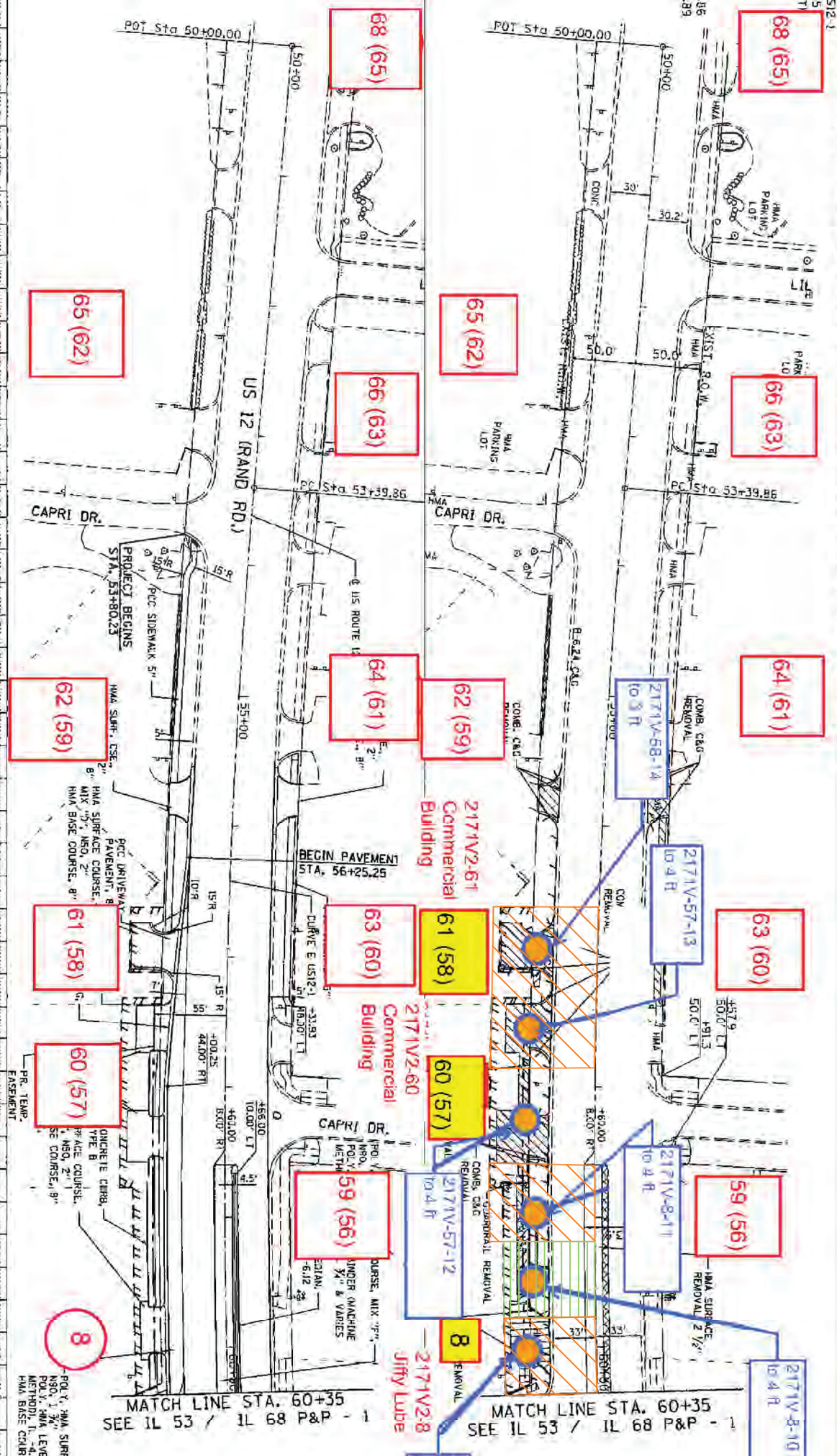
MTY	TOTAL SHEET
DKX	NO.
TRACT NO.	62476
ST	



DATE	
BY	
PROJECT	
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
NO. 9	
NO. 10	

DATE	
BY	
PROJECT	
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
NO. 9	
NO. 10	

EXIST'G CURVE E-US12-1  
 P.I. STA. = 58+23.35  
 Δ = 6° 55' 05" LTT  
 D = 0' 55' 27"  
 R = 6200.00'  
 T = 483.49'  
 L = 965.03'  
 E = 18.82'  
 B = N.C.  
 P.O. STA. = 53+39.86  
 P.I. STA. = 63+04.89



STATION	ELEVATION	REMARKS
50+00		
51+00		
52+00		
53+00		
54+00		
55+00		
56+00		
57+00		
58+00		
59+00		
60+00		
61+00		

PEESA SITE ID NUMBER FOR 2171V2 AND (2171V)	PEESA Site Location with Excavation	2017 Soil Boring Location	2019 Soil Boring Location
14 (55)			
720			
725			
730			
735			
740			

FIGURE 4-1.4 EXTENT OF POTENTIALLY IMPACTED SOIL  
 HUFF & HUFF, INC. WO#01D

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCALE: SHEET NO. SHEETS: STA. TO STA.

F&P SITE NO.	SECTION	COUNTY	TOTAL SHEETS
343	3041-N-2	COOK	62A/B





**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: January 30, 2017

**ANALYTICAL RESULTS**

Date Printed: January 30, 2017

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171v-3-02 0-3

Work Order: 17010623 Revision 0

Collection Date: 1/20/2017 9:25:00 AM

Project: 81.0220509.02, 2171v Duede, Palatine, IL

Matrix: Soil

Lab ID: 17010623-013

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: 1/23/2017		Analyst: PS
Acetone	ND	0.074		mg/Kg-dry	1	1/30/2017
Benzene	ND	0.0049		mg/Kg-dry	1	1/30/2017
Bromodichloromethane	ND	0.0049		mg/Kg-dry	1	1/30/2017
Bromoform	ND	0.0049		mg/Kg-dry	1	1/30/2017
Bromomethane	ND	0.0099		mg/Kg-dry	1	1/30/2017
2-Butanone	ND	0.074		mg/Kg-dry	1	1/30/2017
Carbon disulfide	ND	0.049		mg/Kg-dry	1	1/30/2017
Carbon tetrachloride	ND	0.0049		mg/Kg-dry	1	1/30/2017
Chlorobenzene	ND	0.0049		mg/Kg-dry	1	1/30/2017
Chloroethane	ND	0.0099		mg/Kg-dry	1	1/30/2017
Chloroform	ND	0.0049		mg/Kg-dry	1	1/30/2017
Chloromethane	ND	0.0099		mg/Kg-dry	1	1/30/2017
Dibromochloromethane	ND	0.0049		mg/Kg-dry	1	1/30/2017
1,1-Dichloroethane	ND	0.0049		mg/Kg-dry	1	1/30/2017
1,2-Dichloroethane	ND	0.0049		mg/Kg-dry	1	1/30/2017
1,1-Dichloroethene	ND	0.0049		mg/Kg-dry	1	1/30/2017
cis-1,2-Dichloroethene	ND	0.0049		mg/Kg-dry	1	1/30/2017
trans-1,2-Dichloroethene	ND	0.0049		mg/Kg-dry	1	1/30/2017
1,2-Dichloropropane	ND	0.0049		mg/Kg-dry	1	1/30/2017
cis-1,3-Dichloropropene	ND	0.0020		mg/Kg-dry	1	1/30/2017
trans-1,3-Dichloropropene	ND	0.0020		mg/Kg-dry	1	1/30/2017
Ethylbenzene	ND	0.0049		mg/Kg-dry	1	1/30/2017
2-Hexanone	ND	0.020		mg/Kg-dry	1	1/30/2017
4-Methyl-2-pentanone	ND	0.020		mg/Kg-dry	1	1/30/2017
Methylene chloride	ND	0.0099		mg/Kg-dry	1	1/30/2017
Methyl tert-butyl ether	ND	0.0049		mg/Kg-dry	1	1/30/2017
Styrene	ND	0.0049		mg/Kg-dry	1	1/30/2017
1,1,2,2-Tetrachloroethane	ND	0.0049		mg/Kg-dry	1	1/30/2017
Tetrachloroethene	ND	0.0049		mg/Kg-dry	1	1/30/2017
Toluene	ND	0.0049		mg/Kg-dry	1	1/30/2017
1,1,1-Trichloroethane	ND	0.0049		mg/Kg-dry	1	1/30/2017
1,1,2-Trichloroethane	ND	0.0049		mg/Kg-dry	1	1/30/2017
Trichloroethene	ND	0.0049		mg/Kg-dry	1	1/30/2017
Vinyl chloride	ND	0.0049		mg/Kg-dry	1	1/30/2017
Xylenes, Total	ND	0.015		mg/Kg-dry	1	1/30/2017
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 1/26/2017		Analyst: DM
Acenaphthene	ND	0.040		mg/Kg-dry	1	1/27/2017
Acenaphthylene	ND	0.040		mg/Kg-dry	1	1/27/2017

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: January 30, 2017

**ANALYTICAL RESULTS**

Date Printed: January 30, 2017

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171v-3-02 0-3

Work Order: 17010623 Revision 0

Collection Date: 1/20/2017 9:25:00 AM

Project: 81.0220509.02, 2171v Duede, Palatine, IL

Matrix: Soil

Lab ID: 17010623-013

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270C (SW3550B)</b>				Prep Date: 1/26/2017	Analyst: DM
Aniline	ND	0.40		mg/Kg-dry	1	1/27/2017
Anthracene	ND	0.040		mg/Kg-dry	1	1/27/2017
Benz(a)anthracene	ND	0.040		mg/Kg-dry	1	1/27/2017
Benzdine	ND	0.40		mg/Kg-dry	1	1/27/2017
Benzo(a)pyrene	ND	0.040		mg/Kg-dry	1	1/27/2017
Benzo(b)fluoranthene	ND	0.040		mg/Kg-dry	1	1/27/2017
Benzo(g,h,i)perylene	ND	0.040		mg/Kg-dry	1	1/27/2017
Benzo(k)fluoranthene	ND	0.040		mg/Kg-dry	1	1/27/2017
Benzoic acid	ND	1.0		mg/Kg-dry	1	1/27/2017
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	1/27/2017
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	1/27/2017
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	1/27/2017
Bis(2-ethylhexyl)phthalate	ND	1.0		mg/Kg-dry	1	1/27/2017
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	1/27/2017
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	1/27/2017
Carbazole	ND	0.20		mg/Kg-dry	1	1/27/2017
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	1/27/2017
4-Chloro-3-methylphenol	ND	0.40		mg/Kg-dry	1	1/27/2017
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	1/27/2017
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	1/27/2017
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	1/27/2017
Chrysene	ND	0.040		mg/Kg-dry	1	1/27/2017
Dibenz(a,h)anthracene	ND	0.040		mg/Kg-dry	1	1/27/2017
Dibenzofuran	ND	0.20		mg/Kg-dry	1	1/27/2017
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	1/27/2017
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	1/27/2017
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	1/27/2017
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	1/27/2017
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	1/27/2017
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	1/27/2017
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	1/27/2017
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	1/27/2017
4,6-Dinitro-2-methylphenol	ND	0.40		mg/Kg-dry	1	1/27/2017
2,4-Dinitrophenol	ND	1.0		mg/Kg-dry	1	1/27/2017
2,4-Dinitrotoluene	ND	0.040		mg/Kg-dry	1	1/27/2017
2,6-Dinitrotoluene	ND	0.040		mg/Kg-dry	1	1/27/2017
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	1/27/2017
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	1/27/2017

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
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	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded



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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: January 30, 2017

**ANALYTICAL RESULTS**

Date Printed: January 30, 2017

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171v-3-02 0-3

Work Order: 17010623 Revision 0

Collection Date: 1/20/2017 9:25:00 AM

Project: 81.0220509.02, 2171v Duede, Palatine, IL

Matrix: Soil

Lab ID: 17010623-013

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 1/26/2017	Analyst: DM
Fluoranthene	ND	0.040		mg/Kg-dry	1	1/27/2017
Fluorene	ND	0.040		mg/Kg-dry	1	1/27/2017
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	1/27/2017
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	1/27/2017
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	1/27/2017
Hexachloroethane	ND	0.20		mg/Kg-dry	1	1/27/2017
Indeno(1,2,3-cd)pyrene	ND	0.040		mg/Kg-dry	1	1/27/2017
Isophorone	ND	0.20		mg/Kg-dry	1	1/27/2017
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	1/27/2017
2-Methylphenol	ND	0.20		mg/Kg-dry	1	1/27/2017
4-Methylphenol	ND	0.20		mg/Kg-dry	1	1/27/2017
Naphthalene	ND	0.040		mg/Kg-dry	1	1/27/2017
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	1/27/2017
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	1/27/2017
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	1/27/2017
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	1/27/2017
4-Nitrophenol	ND	0.40		mg/Kg-dry	1	1/27/2017
Nitrobenzene	ND	0.040		mg/Kg-dry	1	1/27/2017
N-Nitrosodi-n-propylamine	ND	0.040		mg/Kg-dry	1	1/27/2017
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	1/27/2017
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	1/27/2017
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	1/27/2017
Pentachlorophenol	ND	0.081		mg/Kg-dry	1	1/27/2017
Phenanthrene	ND	0.040		mg/Kg-dry	1	1/27/2017
Phenol	ND	0.20		mg/Kg-dry	1	1/27/2017
Pyrene	ND	0.040		mg/Kg-dry	1	1/27/2017
Pyridine	ND	0.81		mg/Kg-dry	1	1/27/2017
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	1/27/2017
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	1/27/2017
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	1/27/2017

Metals by ICP/MS	SW6020 (SW3050B)				Prep Date: 1/25/2017	Analyst: JG
Aluminum	13000	21		mg/Kg-dry	10	1/26/2017
Antimony	ND	2.1		mg/Kg-dry	10	1/26/2017
Arsenic	12	1.1		mg/Kg-dry	10	1/26/2017
Barium	98	1.1		mg/Kg-dry	10	1/26/2017
Beryllium	0.83	0.53		mg/Kg-dry	10	1/26/2017
Cadmium	ND	0.53		mg/Kg-dry	10	1/26/2017
Calcium	47000	63		mg/Kg-dry	10	1/26/2017

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	HT - Sample received past holding time	E - Value above quantitation range
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Date Reported: January 30, 2017

**ANALYTICAL RESULTS**

Date Printed: January 30, 2017

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171v-3-02 0-3

Work Order: 17010623 Revision 0

Collection Date: 1/20/2017 9:25:00 AM

Project: 81.0220509.02, 2171v Duede, Palatine, IL

Matrix: Soil

Lab ID: 17010623-013

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>		Prep Date: 1/25/2017		Analyst: JG	
Chromium	20	1.1		mg/Kg-dry	10	1/26/2017
Cobalt	14	1.1		mg/Kg-dry	10	1/26/2017
Copper	27	2.6		mg/Kg-dry	10	1/26/2017
Iron	29000	32		mg/Kg-dry	10	1/26/2017
Lead	23	0.53		mg/Kg-dry	10	1/26/2017
Magnesium	28000	32		mg/Kg-dry	10	1/26/2017
Manganese	920	1.1		mg/Kg-dry	10	1/26/2017
Nickel	31	1.1		mg/Kg-dry	10	1/26/2017
Potassium	1200	32		mg/Kg-dry	10	1/26/2017
Selenium	1.5	1.1		mg/Kg-dry	10	1/26/2017
Silver	ND	1.1		mg/Kg-dry	10	1/26/2017
Sodium	2700	63		mg/Kg-dry	10	1/26/2017
Thallium	ND	1.1		mg/Kg-dry	10	1/26/2017
Vanadium	34	1.1		mg/Kg-dry	10	1/26/2017
Zinc	59	5.3		mg/Kg-dry	10	1/26/2017
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>		Prep Date: 1/27/2017		Analyst: JG	
Arsenic	ND	0.010		mg/L	5	1/29/2017
Barium	0.47	0.050		mg/L	5	1/29/2017
Cadmium	ND	0.0050		mg/L	5	1/29/2017
Chromium	ND	0.010		mg/L	5	1/29/2017
Iron	ND	0.25		mg/L	5	1/29/2017
Lead	ND	0.0050		mg/L	5	1/29/2017
Manganese	6.3	0.010		mg/L	5	1/29/2017
Selenium	ND	0.010		mg/L	5	1/29/2017
Silver	ND	0.010		mg/L	5	1/29/2017
<b>TCLP Mercury</b>	<b>SW1311/7470A</b>		Prep Date: 1/26/2017		Analyst: LB	
Mercury	ND	0.00020		mg/L	1	1/27/2017
<b>Mercury</b>	<b>SW7471A</b>		Prep Date: 1/27/2017		Analyst: LB	
Mercury	0.032	0.022		mg/Kg-dry	1	1/27/2017
<b>Cyanide, Total</b>	<b>SW9012A</b>		Prep Date: 1/25/2017		Analyst: MD	
Cyanide	ND	0.31		mg/Kg-dry	1	1/26/2017
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: 1/27/2017		Analyst: VA	
pH	7.9			pH Units	1	1/27/2017
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: 1/25/2017		Analyst: RW	
Percent Moisture	18.2	0.2	*	wt%	1	1/26/2017

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Date Reported: February 17, 2017

**ANALYTICAL RESULTS**

Date Printed: February 17, 2017

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171v-8-07 0-4

Work Order: 17010623 Revision 1

Collection Date: 1/19/2017 2:10:00 PM

Project: 81.0220509.02, 2171v Dundee, Palatine, IL

Matrix: Soil

Lab ID: 17010623-008

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: 1/23/2017		Analyst: PS
Acetone	ND	0.096		mg/Kg-dry	1	1/30/2017
Benzene	ND	0.0064		mg/Kg-dry	1	1/30/2017
Bromodichloromethane	ND	0.0064		mg/Kg-dry	1	1/30/2017
Bromoform	ND	0.0064		mg/Kg-dry	1	1/30/2017
Bromomethane	ND	0.013		mg/Kg-dry	1	1/30/2017
2-Butanone	ND	0.096		mg/Kg-dry	1	1/30/2017
Carbon disulfide	ND	0.064		mg/Kg-dry	1	1/30/2017
Carbon tetrachloride	ND	0.0064		mg/Kg-dry	1	1/30/2017
Chlorobenzene	ND	0.0064		mg/Kg-dry	1	1/30/2017
Chloroethane	ND	0.013		mg/Kg-dry	1	1/30/2017
Chloroform	ND	0.0064		mg/Kg-dry	1	1/30/2017
Chloromethane	ND	0.013		mg/Kg-dry	1	1/30/2017
Dibromochloromethane	ND	0.0064		mg/Kg-dry	1	1/30/2017
1,1-Dichloroethane	ND	0.0064		mg/Kg-dry	1	1/30/2017
1,2-Dichloroethane	ND	0.0064		mg/Kg-dry	1	1/30/2017
1,1-Dichloroethene	ND	0.0064		mg/Kg-dry	1	1/30/2017
cis-1,2-Dichloroethene	ND	0.0064		mg/Kg-dry	1	1/30/2017
trans-1,2-Dichloroethene	ND	0.0064		mg/Kg-dry	1	1/30/2017
1,2-Dichloropropane	ND	0.0064		mg/Kg-dry	1	1/30/2017
cis-1,3-Dichloropropene	ND	0.0026		mg/Kg-dry	1	1/30/2017
trans-1,3-Dichloropropene	ND	0.0026		mg/Kg-dry	1	1/30/2017
Ethylbenzene	ND	0.0064		mg/Kg-dry	1	1/30/2017
2-Hexanone	ND	0.026		mg/Kg-dry	1	1/30/2017
4-Methyl-2-pentanone	ND	0.026		mg/Kg-dry	1	1/30/2017
Methylene chloride	ND	0.013		mg/Kg-dry	1	1/30/2017
Methyl tert-butyl ether	ND	0.0064		mg/Kg-dry	1	1/30/2017
Styrene	ND	0.0064		mg/Kg-dry	1	1/30/2017
1,1,2,2-Tetrachloroethane	ND	0.0064		mg/Kg-dry	1	1/30/2017
Tetrachloroethene	ND	0.0064		mg/Kg-dry	1	1/30/2017
Toluene	ND	0.0064		mg/Kg-dry	1	1/30/2017
1,1,1-Trichloroethane	ND	0.0064		mg/Kg-dry	1	1/30/2017
1,1,2-Trichloroethane	ND	0.0064		mg/Kg-dry	1	1/30/2017
Trichloroethene	ND	0.0064		mg/Kg-dry	1	1/30/2017
Vinyl chloride	ND	0.0064		mg/Kg-dry	1	1/30/2017
Xylenes, Total	ND	0.019		mg/Kg-dry	1	1/30/2017
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 1/26/2017		Analyst: DM
Acenaphthene	ND	0.041		mg/Kg-dry	1	1/27/2017
Acenaphthylene	ND	0.041		mg/Kg-dry	1	1/27/2017

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Date Reported: February 17, 2017

**ANALYTICAL RESULTS**

Date Printed: February 17, 2017

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171v-8-07 0-4

Work Order: 17010623 Revision 1

Collection Date: 1/19/2017 2:10:00 PM

Project: 81.0220509.02, 2171v Dundee, Palatine, IL

Matrix: Soil

Lab ID: 17010623-008

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270C (SW3550B)</b>					Prep Date: 1/26/2017 Analyst: DM
Aniline	ND	0.41		mg/Kg-dry	1	1/27/2017
Anthracene	ND	0.041		mg/Kg-dry	1	1/27/2017
Benz(a)anthracene	0.11	0.041		mg/Kg-dry	1	1/27/2017
Benztidine	ND	0.41		mg/Kg-dry	1	1/27/2017
Benzo(a)pyrene	0.17	0.041		mg/Kg-dry	1	1/27/2017
Benzo(b)fluoranthene	0.20	0.041		mg/Kg-dry	1	1/27/2017
Benzo(g,h,i)perylene	0.16	0.041		mg/Kg-dry	1	1/27/2017
Benzo(k)fluoranthene	0.14	0.041		mg/Kg-dry	1	1/27/2017
Benzoic acid	ND	1.0		mg/Kg-dry	1	1/27/2017
Benzyl alcohol	ND	0.21		mg/Kg-dry	1	1/27/2017
Bis(2-chloroethoxy)methane	ND	0.21		mg/Kg-dry	1	1/27/2017
Bis(2-chloroethyl)ether	ND	0.21		mg/Kg-dry	1	1/27/2017
Bis(2-ethylhexyl)phthalate	ND	1.0		mg/Kg-dry	1	1/27/2017
4-Bromophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	1/27/2017
Butyl benzyl phthalate	ND	0.21		mg/Kg-dry	1	1/27/2017
Carbazole	ND	0.21		mg/Kg-dry	1	1/27/2017
4-Chloroaniline	ND	0.21		mg/Kg-dry	1	1/27/2017
4-Chloro-3-methylphenol	ND	0.41		mg/Kg-dry	1	1/27/2017
2-Chloronaphthalene	ND	0.21		mg/Kg-dry	1	1/27/2017
2-Chlorophenol	ND	0.21		mg/Kg-dry	1	1/27/2017
4-Chlorophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	1/27/2017
Chrysene	0.16	0.041		mg/Kg-dry	1	1/27/2017
Dibenz(a,h)anthracene	0.062	0.041		mg/Kg-dry	1	1/27/2017
Dibenzofuran	ND	0.21		mg/Kg-dry	1	1/27/2017
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	1/27/2017
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	1/27/2017
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	1/27/2017
3,3'-Dichlorobenzidine	ND	0.21		mg/Kg-dry	1	1/27/2017
2,4-Dichlorophenol	ND	0.21		mg/Kg-dry	1	1/27/2017
Diethyl phthalate	ND	0.21		mg/Kg-dry	1	1/27/2017
2,4-Dimethylphenol	ND	0.21		mg/Kg-dry	1	1/27/2017
Dimethyl phthalate	ND	0.21		mg/Kg-dry	1	1/27/2017
4,6-Dinitro-2-methylphenol	ND	0.41		mg/Kg-dry	1	1/27/2017
2,4-Dinitrophenol	ND	1.0		mg/Kg-dry	1	1/27/2017
2,4-Dinitrotoluene	ND	0.041		mg/Kg-dry	1	1/27/2017
2,6-Dinitrotoluene	ND	0.041		mg/Kg-dry	1	1/27/2017
Di-n-butyl phthalate	ND	0.21		mg/Kg-dry	1	1/27/2017
Di-n-octyl phthalate	ND	0.21		mg/Kg-dry	1	1/27/2017

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Date Reported: February 17, 2017

**ANALYTICAL RESULTS**

Date Printed: February 17, 2017

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171v-8-07 0-4

Work Order: 17010623 Revision 1

Collection Date: 1/19/2017 2:10:00 PM

Project: 81.0220509.02, 2171v Dundee, Palatine, IL

Matrix: Soil

Lab ID: 17010623-008

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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**Semivolatile Organic Compounds by GC/MS SW8270C (SW3550B) Prep Date: 1/26/2017 Analyst: DM**

Fluoranthene	0.24	0.041		mg/Kg-dry	1	1/27/2017
Fluorene	ND	0.041		mg/Kg-dry	1	1/27/2017
Hexachlorobenzene	ND	0.21		mg/Kg-dry	1	1/27/2017
Hexachlorobutadiene	ND	0.21		mg/Kg-dry	1	1/27/2017
Hexachlorocyclopentadiene	ND	0.21		mg/Kg-dry	1	1/27/2017
Hexachloroethane	ND	0.21		mg/Kg-dry	1	1/27/2017
Indeno(1,2,3-cd)pyrene	0.13	0.041		mg/Kg-dry	1	1/27/2017
Isophorone	ND	0.21		mg/Kg-dry	1	1/27/2017
2-Methylnaphthalene	ND	0.21		mg/Kg-dry	1	1/27/2017
2-Methylphenol	ND	0.21		mg/Kg-dry	1	1/27/2017
4-Methylphenol	ND	0.21		mg/Kg-dry	1	1/27/2017
Naphthalene	ND	0.041		mg/Kg-dry	1	1/27/2017
2-Nitroaniline	ND	0.21		mg/Kg-dry	1	1/27/2017
3-Nitroaniline	ND	0.21		mg/Kg-dry	1	1/27/2017
4-Nitroaniline	ND	0.21		mg/Kg-dry	1	1/27/2017
2-Nitrophenol	ND	0.21		mg/Kg-dry	1	1/27/2017
4-Nitrophenol	ND	0.41		mg/Kg-dry	1	1/27/2017
Nitrobenzene	ND	0.041		mg/Kg-dry	1	1/27/2017
N-Nitrosodi-n-propylamine	ND	0.041		mg/Kg-dry	1	1/27/2017
N-Nitrosodimethylamine	ND	0.21		mg/Kg-dry	1	1/27/2017
N-Nitrosodiphenylamine	ND	0.21		mg/Kg-dry	1	1/27/2017
2, 2'-oxybis(1-Chloropropane)	ND	0.21		mg/Kg-dry	1	1/27/2017
Pentachlorophenol	ND	0.083		mg/Kg-dry	1	1/27/2017
Phenanthrene	0.080	0.041		mg/Kg-dry	1	1/27/2017
Phenol	ND	0.21		mg/Kg-dry	1	1/27/2017
Pyrene	0.19	0.041		mg/Kg-dry	1	1/27/2017
Pyridine	ND	0.83		mg/Kg-dry	1	1/27/2017
1,2,4-Trichlorobenzene	ND	0.21		mg/Kg-dry	1	1/27/2017
2,4,5-Trichlorophenol	ND	0.21		mg/Kg-dry	1	1/27/2017
2,4,6-Trichlorophenol	ND	0.21		mg/Kg-dry	1	1/27/2017

**Metals by ICP/MS SW6020 (SW3050B) Prep Date: 1/25/2017 Analyst: JG**

Aluminum	12000	22		mg/Kg-dry	10	1/26/2017
Antimony	ND	2.2		mg/Kg-dry	10	1/26/2017
Arsenic	7.2	1.1		mg/Kg-dry	10	1/26/2017
Barium	87	1.1		mg/Kg-dry	10	1/26/2017
Beryllium	0.68	0.54		mg/Kg-dry	10	1/26/2017
Cadmium	ND	0.54		mg/Kg-dry	10	1/26/2017
Calcium	100000	65		mg/Kg-dry	10	1/26/2017

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 \* - Non-accredited parameter

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 H - Holding time exceeded

**STAT Analysis Corporation**

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: February 17, 2017

**ANALYTICAL RESULTS**

Date Printed: February 17, 2017

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171v-8-07 0-4

Work Order: 17010623 Revision 1

Collection Date: 1/19/2017 2:10:00 PM

Project: 81.0220509.02, 2171v Dundee, Palatine, IL

Matrix: Soil

Lab ID: 17010623-008

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>		Prep Date: 1/25/2017		Analyst: JG	
Chromium	17	1.1		mg/Kg-dry	10	1/26/2017
Cobalt	8.5	1.1		mg/Kg-dry	10	1/26/2017
Copper	19	2.7		mg/Kg-dry	10	1/26/2017
Iron	21000	33		mg/Kg-dry	10	1/26/2017
Lead	31	0.54		mg/Kg-dry	10	1/26/2017
Magnesium	54000	33		mg/Kg-dry	10	1/26/2017
Manganese	860	1.1		mg/Kg-dry	10	1/26/2017
Nickel	20	1.1		mg/Kg-dry	10	1/26/2017
Potassium	1400	33		mg/Kg-dry	10	1/26/2017
Selenium	1.4	1.1		mg/Kg-dry	10	1/26/2017
Silver	ND	1.1		mg/Kg-dry	10	1/26/2017
Sodium	830	65		mg/Kg-dry	10	1/26/2017
Thallium	ND	1.1		mg/Kg-dry	10	1/26/2017
Vanadium	30	1.1		mg/Kg-dry	10	1/26/2017
Zinc	59	5.4		mg/Kg-dry	10	1/26/2017
<b>SPLP Metals by ICP/MS</b>	<b>SW1312/6020 (SW3005A)</b>		Prep Date: 2/15/2017		Analyst: JG	
Manganese	0.027	0.010		mg/L	2	2/15/2017
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>		Prep Date: 1/27/2017		Analyst: JG	
Arsenic	ND	0.010		mg/L	5	1/29/2017
Barium	0.50	0.050		mg/L	5	1/29/2017
Cadmium	ND	0.0050		mg/L	5	1/29/2017
Chromium	ND	0.010		mg/L	5	1/29/2017
Iron	ND	0.25		mg/L	5	1/29/2017
Lead	ND	0.0050		mg/L	5	1/29/2017
Manganese	0.47	0.010		mg/L	5	1/29/2017
Selenium	ND	0.010		mg/L	5	1/29/2017
Silver	ND	0.010		mg/L	5	1/29/2017
<b>TCLP Mercury</b>	<b>SW1311/7470A</b>		Prep Date: 1/26/2017		Analyst: LB	
Mercury	ND	0.00020		mg/L	1	1/27/2017
<b>Mercury</b>	<b>SW7471A</b>		Prep Date: 1/27/2017		Analyst: LB	
Mercury	0.040	0.019		mg/Kg-dry	1	1/27/2017
<b>Cyanide, Total</b>	<b>SW9012A</b>		Prep Date: 1/25/2017		Analyst: MD	
Cyanide	ND	0.31		mg/Kg-dry	1	1/26/2017
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: 1/27/2017		Analyst: VA	
pH	8.2			pH Units	1	1/27/2017

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Date Reported: February 17, 2017

**ANALYTICAL RESULTS**

Date Printed: February 17, 2017

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171v-8-07 0-4

Work Order: 17010623 Revision 1

Collection Date: 1/19/2017 2:10:00 PM

Project: 81.0220509.02, 2171v Dundee, Palatine, IL

Matrix: Soil

Lab ID: 17010623-008

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: 1/24/2017	Analyst: JPF
Percent Moisture	20.0	0.2	*	wt%	1	1/25/2017

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Date Reported: February 17, 2017

**ANALYTICAL RESULTS**

Date Printed: February 17, 2017

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171v-8-06 0-4

Work Order: 17010623 Revision 1

Collection Date: 1/19/2017 2:25:00 PM

Project: 81.0220509.02, 2171v Dundee, Palatine, IL

Matrix: Soil

Lab ID: 17010623-009

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: 1/23/2017		Analyst: PS
Acetone	ND	0.070		mg/Kg-dry	1	1/30/2017
Benzene	ND	0.0047		mg/Kg-dry	1	1/30/2017
Bromodichloromethane	ND	0.0047		mg/Kg-dry	1	1/30/2017
Bromoform	ND	0.0047		mg/Kg-dry	1	1/30/2017
Bromomethane	ND	0.0093		mg/Kg-dry	1	1/30/2017
2-Butanone	ND	0.070		mg/Kg-dry	1	1/30/2017
Carbon disulfide	ND	0.047		mg/Kg-dry	1	1/30/2017
Carbon tetrachloride	ND	0.0047		mg/Kg-dry	1	1/30/2017
Chlorobenzene	ND	0.0047		mg/Kg-dry	1	1/30/2017
Chloroethane	ND	0.0093		mg/Kg-dry	1	1/30/2017
Chloroform	ND	0.0047		mg/Kg-dry	1	1/30/2017
Chloromethane	ND	0.0093		mg/Kg-dry	1	1/30/2017
Dibromochloromethane	ND	0.0047		mg/Kg-dry	1	1/30/2017
1,1-Dichloroethane	ND	0.0047		mg/Kg-dry	1	1/30/2017
1,2-Dichloroethane	ND	0.0047		mg/Kg-dry	1	1/30/2017
1,1-Dichloroethene	ND	0.0047		mg/Kg-dry	1	1/30/2017
cis-1,2-Dichloroethene	ND	0.0047		mg/Kg-dry	1	1/30/2017
trans-1,2-Dichloroethene	ND	0.0047		mg/Kg-dry	1	1/30/2017
1,2-Dichloropropane	ND	0.0047		mg/Kg-dry	1	1/30/2017
cis-1,3-Dichloropropene	ND	0.0019		mg/Kg-dry	1	1/30/2017
trans-1,3-Dichloropropene	ND	0.0019		mg/Kg-dry	1	1/30/2017
Ethylbenzene	ND	0.0047		mg/Kg-dry	1	1/30/2017
2-Hexanone	ND	0.019		mg/Kg-dry	1	1/30/2017
4-Methyl-2-pentanone	ND	0.019		mg/Kg-dry	1	1/30/2017
Methylene chloride	ND	0.0093		mg/Kg-dry	1	1/30/2017
Methyl tert-butyl ether	ND	0.0047		mg/Kg-dry	1	1/30/2017
Styrene	ND	0.0047		mg/Kg-dry	1	1/30/2017
1,1,2,2-Tetrachloroethane	ND	0.0047		mg/Kg-dry	1	1/30/2017
Tetrachloroethene	ND	0.0047		mg/Kg-dry	1	1/30/2017
Toluene	ND	0.0047		mg/Kg-dry	1	1/30/2017
1,1,1-Trichloroethane	ND	0.0047		mg/Kg-dry	1	1/30/2017
1,1,2-Trichloroethane	ND	0.0047		mg/Kg-dry	1	1/30/2017
Trichloroethene	ND	0.0047		mg/Kg-dry	1	1/30/2017
Vinyl chloride	ND	0.0047		mg/Kg-dry	1	1/30/2017
Xylenes, Total	ND	0.014		mg/Kg-dry	1	1/30/2017
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 1/26/2017		Analyst: DM
Acenaphthene	ND	0.036		mg/Kg-dry	1	1/27/2017
Acenaphthylene	ND	0.036		mg/Kg-dry	1	1/27/2017

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Date Reported: February 17, 2017

**ANALYTICAL RESULTS**

Date Printed: February 17, 2017

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171v-8-06 0-4

Work Order: 17010623 Revision 1

Collection Date: 1/19/2017 2:25:00 PM

Project: 81.0220509.02, 2171v Dundee, Palatine, IL

Matrix: Soil

Lab ID: 17010623-009

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>			Prep Date: 1/26/2017	Analyst: DM
Aniline	ND	0.36		mg/Kg-dry	1	1/27/2017
Anthracene	ND	0.036		mg/Kg-dry	1	1/27/2017
Benz(a)anthracene	0.14	0.036		mg/Kg-dry	1	1/27/2017
Benztidine	ND	0.36		mg/Kg-dry	1	1/27/2017
Benzo(a)pyrene	0.19	0.036		mg/Kg-dry	1	1/27/2017
Benzo(b)fluoranthene	0.24	0.036		mg/Kg-dry	1	1/27/2017
Benzo(g,h,i)perylene	0.17	0.036		mg/Kg-dry	1	1/27/2017
Benzo(k)fluoranthene	0.14	0.036		mg/Kg-dry	1	1/27/2017
Benzoic acid	ND	0.91		mg/Kg-dry	1	1/27/2017
Benzyl alcohol	ND	0.19		mg/Kg-dry	1	1/27/2017
Bis(2-chloroethoxy)methane	ND	0.19		mg/Kg-dry	1	1/27/2017
Bis(2-chloroethyl)ether	ND	0.19		mg/Kg-dry	1	1/27/2017
Bis(2-ethylhexyl)phthalate	ND	0.91		mg/Kg-dry	1	1/27/2017
4-Bromophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	1/27/2017
Butyl benzyl phthalate	ND	0.19		mg/Kg-dry	1	1/27/2017
Carbazole	ND	0.19		mg/Kg-dry	1	1/27/2017
4-Chloroaniline	ND	0.19		mg/Kg-dry	1	1/27/2017
4-Chloro-3-methylphenol	ND	0.36		mg/Kg-dry	1	1/27/2017
2-Chloronaphthalene	ND	0.19		mg/Kg-dry	1	1/27/2017
2-Chlorophenol	ND	0.19		mg/Kg-dry	1	1/27/2017
4-Chlorophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	1/27/2017
Chrysene	0.20	0.036		mg/Kg-dry	1	1/27/2017
Dibenz(a,h)anthracene	0.070	0.036		mg/Kg-dry	1	1/27/2017
Dibenzofuran	ND	0.19		mg/Kg-dry	1	1/27/2017
1,2-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	1/27/2017
1,3-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	1/27/2017
1,4-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	1/27/2017
3,3'-Dichlorobenzidine	ND	0.19		mg/Kg-dry	1	1/27/2017
2,4-Dichlorophenol	ND	0.19		mg/Kg-dry	1	1/27/2017
Diethyl phthalate	ND	0.19		mg/Kg-dry	1	1/27/2017
2,4-Dimethylphenol	ND	0.19		mg/Kg-dry	1	1/27/2017
Dimethyl phthalate	ND	0.19		mg/Kg-dry	1	1/27/2017
4,6-Dinitro-2-methylphenol	ND	0.36		mg/Kg-dry	1	1/27/2017
2,4-Dinitrophenol	ND	0.91		mg/Kg-dry	1	1/27/2017
2,4-Dinitrotoluene	ND	0.036		mg/Kg-dry	1	1/27/2017
2,6-Dinitrotoluene	ND	0.036		mg/Kg-dry	1	1/27/2017
Di-n-butyl phthalate	ND	0.19		mg/Kg-dry	1	1/27/2017
Di-n-octyl phthalate	ND	0.19		mg/Kg-dry	1	1/27/2017

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Date Reported: February 17, 2017

**ANALYTICAL RESULTS**

Date Printed: February 17, 2017

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171v-8-06 0-4

Work Order: 17010623 Revision 1

Collection Date: 1/19/2017 2:25:00 PM

Project: 81.0220509.02, 2171v Dundee, Palatine, IL

Matrix: Soil

Lab ID: 17010623-009

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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**Semivolatile Organic Compounds by GC/MS SW8270C (SW3550B) Prep Date: 1/26/2017 Analyst: DM**

Fluoranthene	0.35	0.036		mg/Kg-dry	1	1/27/2017
Fluorene	ND	0.036		mg/Kg-dry	1	1/27/2017
Hexachlorobenzene	ND	0.19		mg/Kg-dry	1	1/27/2017
Hexachlorobutadiene	ND	0.19		mg/Kg-dry	1	1/27/2017
Hexachlorocyclopentadiene	ND	0.19		mg/Kg-dry	1	1/27/2017
Hexachloroethane	ND	0.19		mg/Kg-dry	1	1/27/2017
Indeno(1,2,3-cd)pyrene	0.14	0.036		mg/Kg-dry	1	1/27/2017
Isophorone	ND	0.19		mg/Kg-dry	1	1/27/2017
2-Methylnaphthalene	ND	0.19		mg/Kg-dry	1	1/27/2017
2-Methylphenol	ND	0.19		mg/Kg-dry	1	1/27/2017
4-Methylphenol	ND	0.19		mg/Kg-dry	1	1/27/2017
Naphthalene	ND	0.036		mg/Kg-dry	1	1/27/2017
2-Nitroaniline	ND	0.19		mg/Kg-dry	1	1/27/2017
3-Nitroaniline	ND	0.19		mg/Kg-dry	1	1/27/2017
4-Nitroaniline	ND	0.19		mg/Kg-dry	1	1/27/2017
2-Nitrophenol	ND	0.19		mg/Kg-dry	1	1/27/2017
4-Nitrophenol	ND	0.36		mg/Kg-dry	1	1/27/2017
Nitrobenzene	ND	0.036		mg/Kg-dry	1	1/27/2017
N-Nitrosodi-n-propylamine	ND	0.036		mg/Kg-dry	1	1/27/2017
N-Nitrosodimethylamine	ND	0.19		mg/Kg-dry	1	1/27/2017
N-Nitrosodiphenylamine	ND	0.19		mg/Kg-dry	1	1/27/2017
2, 2'-oxybis(1-Chloropropane)	ND	0.19		mg/Kg-dry	1	1/27/2017
Pentachlorophenol	ND	0.073		mg/Kg-dry	1	1/27/2017
Phenanthrene	0.12	0.036		mg/Kg-dry	1	1/27/2017
Phenol	ND	0.19		mg/Kg-dry	1	1/27/2017
Pyrene	0.27	0.036		mg/Kg-dry	1	1/27/2017
Pyridine	ND	0.73		mg/Kg-dry	1	1/27/2017
1,2,4-Trichlorobenzene	ND	0.19		mg/Kg-dry	1	1/27/2017
2,4,5-Trichlorophenol	ND	0.19		mg/Kg-dry	1	1/27/2017
2,4,6-Trichlorophenol	ND	0.19		mg/Kg-dry	1	1/27/2017

**Metals by ICP/MS SW6020 (SW3050B) Prep Date: 1/25/2017 Analyst: JG**

Aluminum	4600	20		mg/Kg-dry	10	1/26/2017
Antimony	ND	2.0		mg/Kg-dry	10	1/26/2017
Arsenic	6.0	0.98		mg/Kg-dry	10	1/26/2017
Barium	26	0.98		mg/Kg-dry	10	1/26/2017
Beryllium	ND	0.49		mg/Kg-dry	10	1/26/2017
Cadmium	ND	0.49		mg/Kg-dry	10	1/26/2017
Calcium	110000	590		mg/Kg-dry	100	1/30/2017

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**ANALYTICAL RESULTS**

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Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171v-8-06 0-4

Work Order: 17010623 Revision 1

Collection Date: 1/19/2017 2:25:00 PM

Project: 81.0220509.02, 2171v Dundee, Palatine, IL

Matrix: Soil

Lab ID: 17010623-009

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>		Prep Date: 1/25/2017		Analyst: JG	
Chromium	11	0.98		mg/Kg-dry	10	1/26/2017
Cobalt	4.9	0.98		mg/Kg-dry	10	1/26/2017
Copper	14	2.5		mg/Kg-dry	10	1/26/2017
Iron	13000	30		mg/Kg-dry	10	1/26/2017
Lead	49	0.49		mg/Kg-dry	10	1/26/2017
Magnesium	64000	30		mg/Kg-dry	10	1/26/2017
Manganese	390	0.98		mg/Kg-dry	10	1/26/2017
Nickel	13	0.98		mg/Kg-dry	10	1/26/2017
Potassium	800	30		mg/Kg-dry	10	1/26/2017
Selenium	ND	0.98		mg/Kg-dry	10	1/26/2017
Silver	ND	0.98		mg/Kg-dry	10	1/26/2017
Sodium	600	59		mg/Kg-dry	10	1/26/2017
Thallium	ND	0.98		mg/Kg-dry	10	1/26/2017
Vanadium	17	0.98		mg/Kg-dry	10	1/26/2017
Zinc	45	4.9		mg/Kg-dry	10	1/26/2017
<b>SPLP Metals by ICP/MS</b>	<b>SW1312/6020 (SW3005A)</b>		Prep Date: 2/15/2017		Analyst: JG	
Lead	0.017	0.0020		mg/L	2	2/15/2017
Manganese	0.069	0.010		mg/L	2	2/15/2017
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>		Prep Date: 1/27/2017		Analyst: JG	
Arsenic	ND	0.010		mg/L	5	1/29/2017
Barium	0.42	0.050		mg/L	5	1/29/2017
Cadmium	ND	0.0050		mg/L	5	1/29/2017
Chromium	ND	0.010		mg/L	5	1/29/2017
Iron	ND	0.25		mg/L	5	1/29/2017
Lead	0.012	0.0050		mg/L	5	1/29/2017
Manganese	1.3	0.010		mg/L	5	1/29/2017
Selenium	ND	0.010		mg/L	5	1/29/2017
Silver	ND	0.010		mg/L	5	1/29/2017
<b>TCLP Mercury</b>	<b>SW1311/7470A</b>		Prep Date: 1/26/2017		Analyst: LB	
Mercury	ND	0.00020		mg/L	1	1/27/2017
<b>Mercury</b>	<b>SW7471A</b>		Prep Date: 1/27/2017		Analyst: LB	
Mercury	ND	0.020		mg/Kg-dry	1	1/27/2017
<b>Cyanide, Total</b>	<b>SW9012A</b>		Prep Date: 1/25/2017		Analyst: MD	
Cyanide	ND	0.28		mg/Kg-dry	1	1/26/2017

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Client Sample ID: 2171v-8-06 0-4

Work Order: 17010623 Revision 1

Collection Date: 1/19/2017 2:25:00 PM

Project: 81.0220509.02, 2171v Dundee, Palatine, IL

Matrix: Soil

Lab ID: 17010623-009

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>pH (25 °C)</b>	<b>SW9045C</b>				Prep Date: 1/27/2017	Analyst: VA
pH	8.7			pH Units	1	1/27/2017
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: 1/25/2017	Analyst: RW
Percent Moisture	9.2	0.2	*	wt%	1	1/26/2017

**Qualifiers:**

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 HT - Sample received past holding time  
 \* - Non-accredited parameter

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: February 17, 2017

**ANALYTICAL RESULTS**

Date Printed: February 17, 2017

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171v-8-10 0-4

Work Order: 17010623 Revision 1

Collection Date: 1/19/2017 1:40:00 PM

Project: 81.0220509.02, 2171v Dundee, Palatine, IL

Matrix: Soil

Lab ID: 17010623-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: 1/23/2017		Analyst: PS
Acetone	ND	0.081		mg/Kg-dry	1	1/30/2017
Benzene	ND	0.0054		mg/Kg-dry	1	1/30/2017
Bromodichloromethane	ND	0.0054		mg/Kg-dry	1	1/30/2017
Bromoform	ND	0.0054		mg/Kg-dry	1	1/30/2017
Bromomethane	ND	0.011		mg/Kg-dry	1	1/30/2017
2-Butanone	ND	0.081		mg/Kg-dry	1	1/30/2017
Carbon disulfide	ND	0.054		mg/Kg-dry	1	1/30/2017
Carbon tetrachloride	ND	0.0054		mg/Kg-dry	1	1/30/2017
Chlorobenzene	ND	0.0054		mg/Kg-dry	1	1/30/2017
Chloroethane	ND	0.011		mg/Kg-dry	1	1/30/2017
Chloroform	ND	0.0054		mg/Kg-dry	1	1/30/2017
Chloromethane	ND	0.011		mg/Kg-dry	1	1/30/2017
Dibromochloromethane	ND	0.0054		mg/Kg-dry	1	1/30/2017
1,1-Dichloroethane	ND	0.0054		mg/Kg-dry	1	1/30/2017
1,2-Dichloroethane	ND	0.0054		mg/Kg-dry	1	1/30/2017
1,1-Dichloroethene	ND	0.0054		mg/Kg-dry	1	1/30/2017
cis-1,2-Dichloroethene	ND	0.0054		mg/Kg-dry	1	1/30/2017
trans-1,2-Dichloroethene	ND	0.0054		mg/Kg-dry	1	1/30/2017
1,2-Dichloropropane	ND	0.0054		mg/Kg-dry	1	1/30/2017
cis-1,3-Dichloropropene	ND	0.0022		mg/Kg-dry	1	1/30/2017
trans-1,3-Dichloropropene	ND	0.0022		mg/Kg-dry	1	1/30/2017
Ethylbenzene	ND	0.0054		mg/Kg-dry	1	1/30/2017
2-Hexanone	ND	0.022		mg/Kg-dry	1	1/30/2017
4-Methyl-2-pentanone	ND	0.022		mg/Kg-dry	1	1/30/2017
Methylene chloride	ND	0.011		mg/Kg-dry	1	1/30/2017
Methyl tert-butyl ether	ND	0.0054		mg/Kg-dry	1	1/30/2017
Styrene	ND	0.0054		mg/Kg-dry	1	1/30/2017
1,1,2,2-Tetrachloroethane	ND	0.0054		mg/Kg-dry	1	1/30/2017
Tetrachloroethene	ND	0.0054		mg/Kg-dry	1	1/30/2017
Toluene	ND	0.0054		mg/Kg-dry	1	1/30/2017
1,1,1-Trichloroethane	ND	0.0054		mg/Kg-dry	1	1/30/2017
1,1,2-Trichloroethane	ND	0.0054		mg/Kg-dry	1	1/30/2017
Trichloroethene	ND	0.0054		mg/Kg-dry	1	1/30/2017
Vinyl chloride	ND	0.0054		mg/Kg-dry	1	1/30/2017
Xylenes, Total	ND	0.016		mg/Kg-dry	1	1/30/2017
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 1/26/2017		Analyst: DM
Acenaphthene	ND	0.039		mg/Kg-dry	1	1/26/2017
Acenaphthylene	ND	0.039		mg/Kg-dry	1	1/26/2017

**Qualifiers:**  
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 HT - Sample received past holding time  
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Date Reported: February 17, 2017

**ANALYTICAL RESULTS**

Date Printed: February 17, 2017

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171v-8-10 0-4

Work Order: 17010623 Revision 1

Collection Date: 1/19/2017 1:40:00 PM

Project: 81.0220509.02, 2171v Dundee, Palatine, IL

Matrix: Soil

Lab ID: 17010623-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270C (SW3550B)</b>					Prep Date: 1/26/2017 Analyst: DM
Aniline	ND	0.39		mg/Kg-dry	1	1/26/2017
Anthracene	ND	0.039		mg/Kg-dry	1	1/26/2017
Benz(a)anthracene	0.13	0.039		mg/Kg-dry	1	1/26/2017
Benztidine	ND	0.39		mg/Kg-dry	1	1/26/2017
Benzo(a)pyrene	0.16	0.039		mg/Kg-dry	1	1/26/2017
Benzo(b)fluoranthene	0.17	0.039		mg/Kg-dry	1	1/26/2017
Benzo(g,h,i)perylene	0.12	0.039		mg/Kg-dry	1	1/26/2017
Benzo(k)fluoranthene	0.14	0.039		mg/Kg-dry	1	1/26/2017
Benzoic acid	ND	0.98		mg/Kg-dry	1	1/26/2017
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	1/26/2017
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	1/26/2017
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	1/26/2017
Bis(2-ethylhexyl)phthalate	ND	0.98		mg/Kg-dry	1	1/26/2017
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	1/26/2017
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	1/26/2017
Carbazole	ND	0.20		mg/Kg-dry	1	1/26/2017
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	1/26/2017
4-Chloro-3-methylphenol	ND	0.39		mg/Kg-dry	1	1/26/2017
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	1/26/2017
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	1/26/2017
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	1/26/2017
Chrysene	0.18	0.039		mg/Kg-dry	1	1/26/2017
Dibenz(a,h)anthracene	0.053	0.039		mg/Kg-dry	1	1/26/2017
Dibenzofuran	ND	0.20		mg/Kg-dry	1	1/26/2017
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	1/26/2017
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	1/26/2017
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	1/26/2017
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	1/26/2017
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	1/26/2017
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	1/26/2017
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	1/26/2017
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	1/26/2017
4,6-Dinitro-2-methylphenol	ND	0.39		mg/Kg-dry	1	1/26/2017
2,4-Dinitrophenol	ND	0.98		mg/Kg-dry	1	1/26/2017
2,4-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	1/26/2017
2,6-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	1/26/2017
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	1/26/2017
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	1/26/2017

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Date Reported: February 17, 2017

**ANALYTICAL RESULTS**

Date Printed: February 17, 2017

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171v-8-10 0-4

Work Order: 17010623 Revision 1

Collection Date: 1/19/2017 1:40:00 PM

Project: 81.0220509.02, 2171v Dundee, Palatine, IL

Matrix: Soil

Lab ID: 17010623-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>						
<b>SW8270C (SW3550B)</b>				Prep Date: 1/26/2017		Analyst: DM
Fluoranthene	0.39	0.039		mg/Kg-dry	1	1/26/2017
Fluorene	ND	0.039		mg/Kg-dry	1	1/26/2017
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	1/26/2017
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	1/26/2017
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	1/26/2017
Hexachloroethane	ND	0.20		mg/Kg-dry	1	1/26/2017
Indeno(1,2,3-cd)pyrene	0.11	0.039		mg/Kg-dry	1	1/26/2017
Isophorone	ND	0.20		mg/Kg-dry	1	1/26/2017
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	1/26/2017
2-Methylphenol	ND	0.20		mg/Kg-dry	1	1/26/2017
4-Methylphenol	ND	0.20		mg/Kg-dry	1	1/26/2017
Naphthalene	ND	0.039		mg/Kg-dry	1	1/26/2017
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	1/26/2017
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	1/26/2017
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	1/26/2017
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	1/26/2017
4-Nitrophenol	ND	0.39		mg/Kg-dry	1	1/26/2017
Nitrobenzene	ND	0.039		mg/Kg-dry	1	1/26/2017
N-Nitrosodi-n-propylamine	ND	0.039		mg/Kg-dry	1	1/26/2017
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	1/26/2017
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	1/26/2017
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	1/26/2017
Pentachlorophenol	ND	0.079		mg/Kg-dry	1	1/26/2017
Phenanthrene	0.18	0.039		mg/Kg-dry	1	1/26/2017
Phenol	ND	0.20		mg/Kg-dry	1	1/26/2017
Pyrene	0.30	0.039		mg/Kg-dry	1	1/26/2017
Pyridine	ND	0.79		mg/Kg-dry	1	1/26/2017
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	1/26/2017
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	1/26/2017
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	1/26/2017
<b>Metals by ICP/MS</b>						
<b>SW6020 (SW3050B)</b>				Prep Date: 1/25/2017		Analyst: JG
Aluminum	10000	20		mg/Kg-dry	10	1/26/2017
Antimony	ND	2.0		mg/Kg-dry	10	1/26/2017
Arsenic	11	1.0		mg/Kg-dry	10	1/26/2017
Barium	52	1.0		mg/Kg-dry	10	1/26/2017
Beryllium	0.63	0.51		mg/Kg-dry	10	1/26/2017
Cadmium	ND	0.51		mg/Kg-dry	10	1/26/2017
Calcium	61000	61		mg/Kg-dry	10	1/26/2017

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Date Reported: February 17, 2017

**ANALYTICAL RESULTS**

Date Printed: February 17, 2017

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171v-8-10 0-4

Work Order: 17010623 Revision 1

Collection Date: 1/19/2017 1:40:00 PM

Project: 81.0220509.02, 2171v Dundee, Palatine, IL

Matrix: Soil

Lab ID: 17010623-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 1/25/2017	Analyst: JG
Chromium	18	1.0		mg/Kg-dry	10	1/26/2017
Cobalt	13	1.0		mg/Kg-dry	10	1/26/2017
Copper	31	2.5		mg/Kg-dry	10	1/26/2017
Iron	25000	30		mg/Kg-dry	10	1/26/2017
Lead	20	0.51		mg/Kg-dry	10	1/26/2017
Magnesium	36000	30		mg/Kg-dry	10	1/26/2017
Manganese	630	1.0		mg/Kg-dry	10	1/26/2017
Nickel	33	1.0		mg/Kg-dry	10	1/26/2017
Potassium	1600	30		mg/Kg-dry	10	1/26/2017
Selenium	1.1	1.0		mg/Kg-dry	10	1/26/2017
Silver	ND	1.0		mg/Kg-dry	10	1/26/2017
Sodium	1100	61		mg/Kg-dry	10	1/26/2017
Thallium	ND	1.0		mg/Kg-dry	10	1/26/2017
Vanadium	20	1.0		mg/Kg-dry	10	1/26/2017
Zinc	64	5.1		mg/Kg-dry	10	1/26/2017
<b>SPLP Metals by ICP/MS</b>	<b>SW1312/6020 (SW3005A)</b>				Prep Date: 2/15/2017	Analyst: JG
Manganese	0.050	0.0040		mg/L	2	2/15/2017
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>				Prep Date: 1/27/2017	Analyst: JG
Arsenic	ND	0.010		mg/L	5	1/29/2017
Barium	0.45	0.050		mg/L	5	1/29/2017
Cadmium	ND	0.0050		mg/L	5	1/29/2017
Chromium	ND	0.010		mg/L	5	1/29/2017
Iron	ND	0.25		mg/L	5	1/29/2017
Lead	ND	0.0050		mg/L	5	1/29/2017
Manganese	9.0	0.010		mg/L	5	1/29/2017
Selenium	ND	0.010		mg/L	5	1/29/2017
Silver	ND	0.010		mg/L	5	1/29/2017
<b>TCLP Mercury</b>	<b>SW1311/7470A</b>				Prep Date: 1/26/2017	Analyst: LB
Mercury	ND	0.00020		mg/L	1	1/27/2017
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: 1/27/2017	Analyst: LB
Mercury	0.030	0.022		mg/Kg-dry	1	1/27/2017
<b>Cyanide, Total</b>	<b>SW9012A</b>				Prep Date: 1/25/2017	Analyst: MD
Cyanide	ND	0.30		mg/Kg-dry	1	1/26/2017
<b>pH (25 °C)</b>	<b>SW9045C</b>				Prep Date: 1/27/2017	Analyst: VA
pH	9.0			pH Units	1	1/27/2017

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Date Reported: February 17, 2017

**ANALYTICAL RESULTS**

Date Printed: February 17, 2017

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171v-8-10 0-4

Work Order: 17010623 Revision 1

Collection Date: 1/19/2017 1:40:00 PM

Project: 81.0220509.02, 2171v Dundee, Palatine, IL

Matrix: Soil

Lab ID: 17010623-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: 1/24/2017	Analyst: JPF
Percent Moisture	15.9	0.2	*	wt%	1	1/25/2017

**Qualifiers:**

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B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

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Date Reported: February 17, 2017

**ANALYTICAL RESULTS**

Date Printed: February 17, 2017

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171v-29-18 0-1

Work Order: 17010623 Revision 1

Collection Date: 1/20/2017 10:10:00 AM

Project: 81.0220509.02, 2171v Dundee, Palatine, IL

Matrix: Soil

Lab ID: 17010623-016

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: 1/23/2017		Analyst: PS
Acetone	ND	0.067		mg/Kg-dry	1	1/29/2017
Benzene	ND	0.0044		mg/Kg-dry	1	1/29/2017
Bromodichloromethane	ND	0.0044		mg/Kg-dry	1	1/29/2017
Bromoform	ND	0.0044		mg/Kg-dry	1	1/29/2017
Bromomethane	ND	0.0089		mg/Kg-dry	1	1/29/2017
2-Butanone	ND	0.067		mg/Kg-dry	1	1/29/2017
Carbon disulfide	ND	0.044		mg/Kg-dry	1	1/29/2017
Carbon tetrachloride	ND	0.0044		mg/Kg-dry	1	1/29/2017
Chlorobenzene	ND	0.0044		mg/Kg-dry	1	1/29/2017
Chloroethane	ND	0.0089		mg/Kg-dry	1	1/29/2017
Chloroform	ND	0.0044		mg/Kg-dry	1	1/29/2017
Chloromethane	ND	0.0089		mg/Kg-dry	1	1/29/2017
Dibromochloromethane	ND	0.0044		mg/Kg-dry	1	1/29/2017
1,1-Dichloroethane	ND	0.0044		mg/Kg-dry	1	1/29/2017
1,2-Dichloroethane	ND	0.0044		mg/Kg-dry	1	1/29/2017
1,1-Dichloroethene	ND	0.0044		mg/Kg-dry	1	1/29/2017
cis-1,2-Dichloroethene	ND	0.0044		mg/Kg-dry	1	1/29/2017
trans-1,2-Dichloroethene	ND	0.0044		mg/Kg-dry	1	1/29/2017
1,2-Dichloropropane	ND	0.0044		mg/Kg-dry	1	1/29/2017
cis-1,3-Dichloropropene	ND	0.0018		mg/Kg-dry	1	1/29/2017
trans-1,3-Dichloropropene	ND	0.0018		mg/Kg-dry	1	1/29/2017
Ethylbenzene	ND	0.0044		mg/Kg-dry	1	1/29/2017
2-Hexanone	ND	0.018		mg/Kg-dry	1	1/29/2017
4-Methyl-2-pentanone	ND	0.018		mg/Kg-dry	1	1/29/2017
Methylene chloride	ND	0.0089		mg/Kg-dry	1	1/29/2017
Methyl tert-butyl ether	ND	0.0044		mg/Kg-dry	1	1/29/2017
Styrene	ND	0.0044		mg/Kg-dry	1	1/29/2017
1,1,2,2-Tetrachloroethane	ND	0.0044		mg/Kg-dry	1	1/29/2017
Tetrachloroethene	ND	0.0044		mg/Kg-dry	1	1/29/2017
Toluene	ND	0.0044		mg/Kg-dry	1	1/29/2017
1,1,1-Trichloroethane	ND	0.0044		mg/Kg-dry	1	1/29/2017
1,1,2-Trichloroethane	ND	0.0044		mg/Kg-dry	1	1/29/2017
Trichloroethene	ND	0.0044		mg/Kg-dry	1	1/29/2017
Vinyl chloride	ND	0.0044		mg/Kg-dry	1	1/29/2017
Xylenes, Total	ND	0.013		mg/Kg-dry	1	1/29/2017
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 1/26/2017		Analyst: DM
Acenaphthene	ND	0.040		mg/Kg-dry	1	1/27/2017
Acenaphthylene	ND	0.040		mg/Kg-dry	1	1/27/2017

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Date Reported: February 17, 2017

**ANALYTICAL RESULTS**

Date Printed: February 17, 2017

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171v-29-18 0-1

Work Order: 17010623 Revision 1

Collection Date: 1/20/2017 10:10:00 AM

Project: 81.0220509.02, 2171v Dundee, Palatine, IL

Matrix: Soil

Lab ID: 17010623-016

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270C (SW3550B)</b>				Prep Date: 1/26/2017	Analyst: DM
Aniline	ND	0.40		mg/Kg-dry	1	1/27/2017
Anthracene	0.045	0.040		mg/Kg-dry	1	1/27/2017
Benz(a)anthracene	0.39	0.040		mg/Kg-dry	1	1/27/2017
Benztidine	ND	0.40		mg/Kg-dry	1	1/27/2017
Benzo(a)pyrene	0.48	0.040		mg/Kg-dry	1	1/27/2017
Benzo(b)fluoranthene	0.53	0.040		mg/Kg-dry	1	1/27/2017
Benzo(g,h,i)perylene	0.40	0.040		mg/Kg-dry	1	1/27/2017
Benzo(k)fluoranthene	0.43	0.040		mg/Kg-dry	1	1/27/2017
Benzoic acid	ND	1.0		mg/Kg-dry	1	1/27/2017
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	1/27/2017
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	1/27/2017
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	1/27/2017
Bis(2-ethylhexyl)phthalate	ND	1.0		mg/Kg-dry	1	1/27/2017
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	1/27/2017
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	1/27/2017
Carbazole	ND	0.20		mg/Kg-dry	1	1/27/2017
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	1/27/2017
4-Chloro-3-methylphenol	ND	0.40		mg/Kg-dry	1	1/27/2017
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	1/27/2017
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	1/27/2017
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	1/27/2017
Chrysene	0.53	0.040		mg/Kg-dry	1	1/27/2017
Dibenz(a,h)anthracene	0.17	0.040		mg/Kg-dry	1	1/27/2017
Dibenzofuran	ND	0.20		mg/Kg-dry	1	1/27/2017
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	1/27/2017
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	1/27/2017
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	1/27/2017
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	1/27/2017
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	1/27/2017
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	1/27/2017
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	1/27/2017
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	1/27/2017
4,6-Dinitro-2-methylphenol	ND	0.40		mg/Kg-dry	1	1/27/2017
2,4-Dinitrophenol	ND	1.0		mg/Kg-dry	1	1/27/2017
2,4-Dinitrotoluene	ND	0.040		mg/Kg-dry	1	1/27/2017
2,6-Dinitrotoluene	ND	0.040		mg/Kg-dry	1	1/27/2017
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	1/27/2017
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	1/27/2017

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Date Reported: February 17, 2017

**ANALYTICAL RESULTS**

Date Printed: February 17, 2017

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171v-29-18 0-1

Work Order: 17010623 Revision 1

Collection Date: 1/20/2017 10:10:00 AM

Project: 81.0220509.02, 2171v Dundee, Palatine, IL

Matrix: Soil

Lab ID: 17010623-016

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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**Semivolatile Organic Compounds by GC/MS SW8270C (SW3550B) Prep Date: 1/26/2017 Analyst: DM**

Fluoranthene	0.98	0.040		mg/Kg-dry	1	1/27/2017
Fluorene	ND	0.040		mg/Kg-dry	1	1/27/2017
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	1/27/2017
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	1/27/2017
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	1/27/2017
Hexachloroethane	ND	0.20		mg/Kg-dry	1	1/27/2017
Indeno(1,2,3-cd)pyrene	0.35	0.040		mg/Kg-dry	1	1/27/2017
Isophorone	ND	0.20		mg/Kg-dry	1	1/27/2017
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	1/27/2017
2-Methylphenol	ND	0.20		mg/Kg-dry	1	1/27/2017
4-Methylphenol	ND	0.20		mg/Kg-dry	1	1/27/2017
Naphthalene	ND	0.040		mg/Kg-dry	1	1/27/2017
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	1/27/2017
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	1/27/2017
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	1/27/2017
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	1/27/2017
4-Nitrophenol	ND	0.40		mg/Kg-dry	1	1/27/2017
Nitrobenzene	ND	0.040		mg/Kg-dry	1	1/27/2017
N-Nitrosodi-n-propylamine	ND	0.040		mg/Kg-dry	1	1/27/2017
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	1/27/2017
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	1/27/2017
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	1/27/2017
Pentachlorophenol	ND	0.080		mg/Kg-dry	1	1/27/2017
Phenanthrene	0.32	0.040		mg/Kg-dry	1	1/27/2017
Phenol	ND	0.20		mg/Kg-dry	1	1/27/2017
Pyrene	0.77	0.040		mg/Kg-dry	1	1/27/2017
Pyridine	ND	0.80		mg/Kg-dry	1	1/27/2017
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	1/27/2017
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	1/27/2017
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	1/27/2017

**Metals by ICP/MS SW6020 (SW3050B) Prep Date: 1/25/2017 Analyst: JG**

Aluminum	16000	21		mg/Kg-dry	10	1/26/2017
Antimony	ND	2.1		mg/Kg-dry	10	1/26/2017
Arsenic	12	1.1		mg/Kg-dry	10	1/26/2017
Barium	150	1.1		mg/Kg-dry	10	1/26/2017
Beryllium	0.95	0.53		mg/Kg-dry	10	1/26/2017
Cadmium	ND	0.53		mg/Kg-dry	10	1/26/2017
Calcium	17000	63		mg/Kg-dry	10	1/26/2017

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Date Reported: February 17, 2017

**ANALYTICAL RESULTS**

Date Printed: February 17, 2017

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171v-29-18 0-1

Work Order: 17010623 Revision 1

Collection Date: 1/20/2017 10:10:00 AM

Project: 81.0220509.02, 2171v Dundee, Palatine, IL

Matrix: Soil

Lab ID: 17010623-016

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>		Prep Date: 1/25/2017		Analyst: JG	
Chromium	25	1.1		mg/Kg-dry	10	1/26/2017
Cobalt	12	1.1		mg/Kg-dry	10	1/26/2017
Copper	33	2.6		mg/Kg-dry	10	1/26/2017
Iron	31000	32		mg/Kg-dry	10	1/26/2017
Lead	33	0.53		mg/Kg-dry	10	1/26/2017
Magnesium	11000	32		mg/Kg-dry	10	1/26/2017
Manganese	900	1.1		mg/Kg-dry	10	1/26/2017
Nickel	28	1.1		mg/Kg-dry	10	1/26/2017
Potassium	2000	32		mg/Kg-dry	10	1/26/2017
Selenium	2.1	1.1		mg/Kg-dry	10	1/26/2017
Silver	ND	1.1		mg/Kg-dry	10	1/26/2017
Sodium	1500	63		mg/Kg-dry	10	1/26/2017
Thallium	ND	1.1		mg/Kg-dry	10	1/26/2017
Vanadium	36	1.1		mg/Kg-dry	10	1/26/2017
Zinc	91	5.3		mg/Kg-dry	10	1/26/2017
<b>SPLP Metals by ICP/MS</b>	<b>SW1312/6020 (SW3005A)</b>		Prep Date: 2/15/2017		Analyst: JG	
Arsenic	ND	0.010		mg/L	2	2/15/2017
Manganese	0.054	0.010		mg/L	2	2/15/2017
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>		Prep Date: 1/27/2017		Analyst: JG	
Arsenic	ND	0.010		mg/L	5	1/29/2017
Barium	0.49	0.050		mg/L	5	1/29/2017
Cadmium	ND	0.0050		mg/L	5	1/29/2017
Chromium	ND	0.010		mg/L	5	1/29/2017
Iron	ND	0.25		mg/L	5	1/29/2017
Lead	ND	0.0050		mg/L	5	1/29/2017
Manganese	1.8	0.010		mg/L	5	1/29/2017
Selenium	ND	0.010		mg/L	5	1/29/2017
Silver	ND	0.010		mg/L	5	1/29/2017
<b>TCLP Mercury</b>	<b>SW1311/7470A</b>		Prep Date: 1/26/2017		Analyst: LB	
Mercury	ND	0.00020		mg/L	1	1/27/2017
<b>Mercury</b>	<b>SW7471A</b>		Prep Date: 1/27/2017		Analyst: LB	
Mercury	0.033	0.021		mg/Kg-dry	1	1/27/2017
<b>Cyanide, Total</b>	<b>SW9012A</b>		Prep Date: 1/25/2017		Analyst: MD	
Cyanide	ND	0.30		mg/Kg-dry	1	1/26/2017

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Client Sample ID: 2171v-29-18 0-1

Work Order: 17010623 Revision 1

Collection Date: 1/20/2017 10:10:00 AM

Project: 81.0220509.02, 2171v Dundee, Palatine, IL

Matrix: Soil

Lab ID: 17010623-016

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>pH (25 °C)</b>	<b>SW9045C</b>				Prep Date: 1/27/2017	Analyst: VA
pH	8.7			pH Units	1	1/27/2017
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: 1/25/2017	Analyst: RW
Percent Moisture	18.0	0.2	*	wt%	1	1/26/2017

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Date Printed: February 17, 2017

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Client Sample ID: 2171v-29-17 0-1

Work Order: 17010623 Revision 1

Collection Date: 1/20/2017 10:25:00 AM

Project: 81.0220509.02, 2171v Dundee, Palatine, IL

Matrix: Soil

Lab ID: 17010623-017

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: 1/23/2017		Analyst: PS
Acetone	ND	0.079		mg/Kg-dry	1	1/29/2017
Benzene	ND	0.0053		mg/Kg-dry	1	1/29/2017
Bromodichloromethane	ND	0.0053		mg/Kg-dry	1	1/29/2017
Bromoform	ND	0.0053		mg/Kg-dry	1	1/29/2017
Bromomethane	ND	0.011		mg/Kg-dry	1	1/29/2017
2-Butanone	ND	0.079		mg/Kg-dry	1	1/29/2017
Carbon disulfide	ND	0.053		mg/Kg-dry	1	1/29/2017
Carbon tetrachloride	ND	0.0053		mg/Kg-dry	1	1/29/2017
Chlorobenzene	ND	0.0053		mg/Kg-dry	1	1/29/2017
Chloroethane	ND	0.011		mg/Kg-dry	1	1/29/2017
Chloroform	ND	0.0053		mg/Kg-dry	1	1/29/2017
Chloromethane	ND	0.011		mg/Kg-dry	1	1/29/2017
Dibromochloromethane	ND	0.0053		mg/Kg-dry	1	1/29/2017
1,1-Dichloroethane	ND	0.0053		mg/Kg-dry	1	1/29/2017
1,2-Dichloroethane	ND	0.0053		mg/Kg-dry	1	1/29/2017
1,1-Dichloroethene	ND	0.0053		mg/Kg-dry	1	1/29/2017
cis-1,2-Dichloroethene	ND	0.0053		mg/Kg-dry	1	1/29/2017
trans-1,2-Dichloroethene	ND	0.0053		mg/Kg-dry	1	1/29/2017
1,2-Dichloropropane	ND	0.0053		mg/Kg-dry	1	1/29/2017
cis-1,3-Dichloropropene	ND	0.0021		mg/Kg-dry	1	1/29/2017
trans-1,3-Dichloropropene	ND	0.0021		mg/Kg-dry	1	1/29/2017
Ethylbenzene	ND	0.0053		mg/Kg-dry	1	1/29/2017
2-Hexanone	ND	0.021		mg/Kg-dry	1	1/29/2017
4-Methyl-2-pentanone	ND	0.021		mg/Kg-dry	1	1/29/2017
Methylene chloride	ND	0.011		mg/Kg-dry	1	1/29/2017
Methyl tert-butyl ether	ND	0.0053		mg/Kg-dry	1	1/29/2017
Styrene	ND	0.0053		mg/Kg-dry	1	1/29/2017
1,1,2,2-Tetrachloroethane	ND	0.0053		mg/Kg-dry	1	1/29/2017
Tetrachloroethene	ND	0.0053		mg/Kg-dry	1	1/29/2017
Toluene	ND	0.0053		mg/Kg-dry	1	1/29/2017
1,1,1-Trichloroethane	ND	0.0053		mg/Kg-dry	1	1/29/2017
1,1,2-Trichloroethane	ND	0.0053		mg/Kg-dry	1	1/29/2017
Trichloroethene	ND	0.0053		mg/Kg-dry	1	1/29/2017
Vinyl chloride	ND	0.0053		mg/Kg-dry	1	1/29/2017
Xylenes, Total	ND	0.016		mg/Kg-dry	1	1/29/2017
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 1/26/2017		Analyst: DM
Acenaphthene	ND	0.041		mg/Kg-dry	1	1/27/2017
Acenaphthylene	ND	0.041		mg/Kg-dry	1	1/27/2017

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**ANALYTICAL RESULTS**

Date Printed: February 17, 2017

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Client Sample ID: 2171v-29-17 0-1

Work Order: 17010623 Revision 1

Collection Date: 1/20/2017 10:25:00 AM

Project: 81.0220509.02, 2171v Dundee, Palatine, IL

Matrix: Soil

Lab ID: 17010623-017

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 1/26/2017		Analyst: DM
Aniline	ND	0.42		mg/Kg-dry	1	1/27/2017
Anthracene	ND	0.041		mg/Kg-dry	1	1/27/2017
Benz(a)anthracene	0.19	0.041		mg/Kg-dry	1	1/27/2017
Benzenzidine	ND	0.41		mg/Kg-dry	1	1/27/2017
Benzo(a)pyrene	0.24	0.041		mg/Kg-dry	1	1/27/2017
Benzo(b)fluoranthene	0.31	0.041		mg/Kg-dry	1	1/27/2017
Benzo(g,h,i)perylene	0.20	0.041		mg/Kg-dry	1	1/27/2017
Benzo(k)fluoranthene	0.18	0.041		mg/Kg-dry	1	1/27/2017
Benzoic acid	ND	1.0		mg/Kg-dry	1	1/27/2017
Benzyl alcohol	ND	0.21		mg/Kg-dry	1	1/27/2017
Bis(2-chloroethoxy)methane	ND	0.21		mg/Kg-dry	1	1/27/2017
Bis(2-chloroethyl)ether	ND	0.21		mg/Kg-dry	1	1/27/2017
Bis(2-ethylhexyl)phthalate	ND	1.0		mg/Kg-dry	1	1/27/2017
4-Bromophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	1/27/2017
Butyl benzyl phthalate	ND	0.21		mg/Kg-dry	1	1/27/2017
Carbazole	ND	0.21		mg/Kg-dry	1	1/27/2017
4-Chloroaniline	ND	0.21		mg/Kg-dry	1	1/27/2017
4-Chloro-3-methylphenol	ND	0.41		mg/Kg-dry	1	1/27/2017
2-Chloronaphthalene	ND	0.21		mg/Kg-dry	1	1/27/2017
2-Chlorophenol	ND	0.21		mg/Kg-dry	1	1/27/2017
4-Chlorophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	1/27/2017
Chrysene	0.26	0.041		mg/Kg-dry	1	1/27/2017
Dibenz(a,h)anthracene	0.087	0.041		mg/Kg-dry	1	1/27/2017
Dibenzofuran	ND	0.21		mg/Kg-dry	1	1/27/2017
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	1/27/2017
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	1/27/2017
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	1/27/2017
3,3'-Dichlorobenzidine	ND	0.21		mg/Kg-dry	1	1/27/2017
2,4-Dichlorophenol	ND	0.21		mg/Kg-dry	1	1/27/2017
Diethyl phthalate	ND	0.21		mg/Kg-dry	1	1/27/2017
2,4-Dimethylphenol	ND	0.21		mg/Kg-dry	1	1/27/2017
Dimethyl phthalate	ND	0.21		mg/Kg-dry	1	1/27/2017
4,6-Dinitro-2-methylphenol	ND	0.41		mg/Kg-dry	1	1/27/2017
2,4-Dinitrophenol	ND	1.0		mg/Kg-dry	1	1/27/2017
2,4-Dinitrotoluene	ND	0.041		mg/Kg-dry	1	1/27/2017
2,6-Dinitrotoluene	ND	0.041		mg/Kg-dry	1	1/27/2017
Di-n-butyl phthalate	ND	0.21		mg/Kg-dry	1	1/27/2017
Di-n-octyl phthalate	ND	0.21		mg/Kg-dry	1	1/27/2017

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Date Reported: February 17, 2017

**ANALYTICAL RESULTS**

Date Printed: February 17, 2017

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171v-29-17 0-1

Work Order: 17010623 Revision 1

Collection Date: 1/20/2017 10:25:00 AM

Project: 81.0220509.02, 2171v Dundee, Palatine, IL

Matrix: Soil

Lab ID: 17010623-017

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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**Semivolatile Organic Compounds by GC/MS SW8270C (SW3550B) Prep Date: 1/26/2017 Analyst: DM**

Fluoranthene	0.48	0.041		mg/Kg-dry	1	1/27/2017
Fluorene	ND	0.041		mg/Kg-dry	1	1/27/2017
Hexachlorobenzene	ND	0.21		mg/Kg-dry	1	1/27/2017
Hexachlorobutadiene	ND	0.21		mg/Kg-dry	1	1/27/2017
Hexachlorocyclopentadiene	ND	0.21		mg/Kg-dry	1	1/27/2017
Hexachloroethane	ND	0.21		mg/Kg-dry	1	1/27/2017
Indeno(1,2,3-cd)pyrene	0.18	0.041		mg/Kg-dry	1	1/27/2017
Isophorone	ND	0.21		mg/Kg-dry	1	1/27/2017
2-Methylnaphthalene	ND	0.21		mg/Kg-dry	1	1/27/2017
2-Methylphenol	ND	0.21		mg/Kg-dry	1	1/27/2017
4-Methylphenol	ND	0.21		mg/Kg-dry	1	1/27/2017
Naphthalene	ND	0.041		mg/Kg-dry	1	1/27/2017
2-Nitroaniline	ND	0.21		mg/Kg-dry	1	1/27/2017
3-Nitroaniline	ND	0.21		mg/Kg-dry	1	1/27/2017
4-Nitroaniline	ND	0.21		mg/Kg-dry	1	1/27/2017
2-Nitrophenol	ND	0.21		mg/Kg-dry	1	1/27/2017
4-Nitrophenol	ND	0.41		mg/Kg-dry	1	1/27/2017
Nitrobenzene	ND	0.041		mg/Kg-dry	1	1/27/2017
N-Nitrosodi-n-propylamine	ND	0.041		mg/Kg-dry	1	1/27/2017
N-Nitrosodimethylamine	ND	0.21		mg/Kg-dry	1	1/27/2017
N-Nitrosodiphenylamine	ND	0.21		mg/Kg-dry	1	1/27/2017
2, 2'-oxybis(1-Chloropropane)	ND	0.21		mg/Kg-dry	1	1/27/2017
Pentachlorophenol	ND	0.084		mg/Kg-dry	1	1/27/2017
Phenanthrene	0.16	0.041		mg/Kg-dry	1	1/27/2017
Phenol	ND	0.21		mg/Kg-dry	1	1/27/2017
Pyrene	0.39	0.041		mg/Kg-dry	1	1/27/2017
Pyridine	ND	0.84		mg/Kg-dry	1	1/27/2017
1,2,4-Trichlorobenzene	ND	0.21		mg/Kg-dry	1	1/27/2017
2,4,5-Trichlorophenol	ND	0.21		mg/Kg-dry	1	1/27/2017
2,4,6-Trichlorophenol	ND	0.21		mg/Kg-dry	1	1/27/2017

**Metals by ICP/MS SW6020 (SW3050B) Prep Date: 1/25/2017 Analyst: JG**

Aluminum	13000	22		mg/Kg-dry	10	1/26/2017
Antimony	ND	2.2		mg/Kg-dry	10	1/26/2017
Arsenic	8.6	1.1		mg/Kg-dry	10	1/26/2017
Barium	100	1.1		mg/Kg-dry	10	1/26/2017
Beryllium	0.77	0.54		mg/Kg-dry	10	1/26/2017
Cadmium	0.57	0.54		mg/Kg-dry	10	1/26/2017
Calcium	28000	65		mg/Kg-dry	10	1/26/2017

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Date Reported: February 17, 2017

**ANALYTICAL RESULTS**

Date Printed: February 17, 2017

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171v-29-17 0-1

Work Order: 17010623 Revision 1

Collection Date: 1/20/2017 10:25:00 AM

Project: 81.0220509.02, 2171v Dundee, Palatine, IL

Matrix: Soil

Lab ID: 17010623-017

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>			Prep Date: 1/25/2017		Analyst: JG
Chromium	28	1.1		mg/Kg-dry	10	1/26/2017
Cobalt	9.7	1.1		mg/Kg-dry	10	1/26/2017
Copper	37	2.7		mg/Kg-dry	10	1/26/2017
Iron	25000	32		mg/Kg-dry	10	1/26/2017
Lead	49	0.54		mg/Kg-dry	10	1/26/2017
Magnesium	15000	32		mg/Kg-dry	10	1/26/2017
Manganese	570	1.1		mg/Kg-dry	10	1/26/2017
Nickel	31	1.1		mg/Kg-dry	10	1/26/2017
Potassium	2000	32		mg/Kg-dry	10	1/26/2017
Selenium	1.5	1.1		mg/Kg-dry	10	1/26/2017
Silver	ND	1.1		mg/Kg-dry	10	1/26/2017
Sodium	1900	65		mg/Kg-dry	10	1/26/2017
Thallium	ND	1.1		mg/Kg-dry	10	1/26/2017
Vanadium	27	1.1		mg/Kg-dry	10	1/26/2017
Zinc	110	5.4		mg/Kg-dry	10	1/26/2017
<b>SPLP Metals by ICP/MS</b>	<b>SW1312/6020 (SW3005A)</b>			Prep Date: 2/15/2017		Analyst: JG
Manganese	0.10	0.010		mg/L	2	2/15/2017
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>			Prep Date: 1/27/2017		Analyst: JG
Arsenic	ND	0.010		mg/L	5	1/29/2017
Barium	0.46	0.050		mg/L	5	1/29/2017
Cadmium	ND	0.0050		mg/L	5	1/29/2017
Chromium	ND	0.010		mg/L	5	1/29/2017
Iron	ND	0.25		mg/L	5	1/29/2017
Lead	ND	0.0050		mg/L	5	1/29/2017
Manganese	1.3	0.010		mg/L	5	1/29/2017
Selenium	ND	0.010		mg/L	5	1/29/2017
Silver	ND	0.010		mg/L	5	1/29/2017
<b>TCLP Mercury</b>	<b>SW1311/7470A</b>			Prep Date: 1/26/2017		Analyst: LB
Mercury	ND	0.00020		mg/L	1	1/27/2017
<b>Mercury</b>	<b>SW7471A</b>			Prep Date: 1/27/2017		Analyst: LB
Mercury	0.035	0.022		mg/Kg-dry	1	1/27/2017
<b>Cyanide, Total</b>	<b>SW9012A</b>			Prep Date: 1/25/2017		Analyst: MD
Cyanide	ND	0.32		mg/Kg-dry	1	1/26/2017
<b>pH (25 °C)</b>	<b>SW9045C</b>			Prep Date: 1/27/2017		Analyst: VA
pH	8.6			pH Units	1	1/27/2017

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Date Reported: February 17, 2017

**ANALYTICAL RESULTS**

Date Printed: February 17, 2017

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171v-29-17 0-1

Work Order: 17010623 Revision 1

Collection Date: 1/20/2017 10:25:00 AM

Project: 81.0220509.02, 2171v Dundee, Palatine, IL

Matrix: Soil

Lab ID: 17010623-017

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: 1/25/2017	Analyst: RW
Percent Moisture	21.0	0.2	*	wt%	1	1/26/2017

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Date Reported: February 17, 2017

**ANALYTICAL RESULTS**

Date Printed: February 17, 2017

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171v-29-16 0-1

Work Order: 17010623 Revision 1

Collection Date: 1/20/2017 10:40:00 AM

Project: 81.0220509.02, 2171v Dundee, Palatine, IL

Matrix: Soil

Lab ID: 17010623-018

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: 1/23/2017		Analyst: PS
Acetone	ND	0.078		mg/Kg-dry	1	1/29/2017
Benzene	ND	0.0052		mg/Kg-dry	1	1/29/2017
Bromodichloromethane	ND	0.0052		mg/Kg-dry	1	1/29/2017
Bromoform	ND	0.0052		mg/Kg-dry	1	1/29/2017
Bromomethane	ND	0.010		mg/Kg-dry	1	1/29/2017
2-Butanone	ND	0.078		mg/Kg-dry	1	1/29/2017
Carbon disulfide	ND	0.052		mg/Kg-dry	1	1/29/2017
Carbon tetrachloride	ND	0.0052		mg/Kg-dry	1	1/29/2017
Chlorobenzene	ND	0.0052		mg/Kg-dry	1	1/29/2017
Chloroethane	ND	0.010		mg/Kg-dry	1	1/29/2017
Chloroform	ND	0.0052		mg/Kg-dry	1	1/29/2017
Chloromethane	ND	0.010		mg/Kg-dry	1	1/29/2017
Dibromochloromethane	ND	0.0052		mg/Kg-dry	1	1/29/2017
1,1-Dichloroethane	ND	0.0052		mg/Kg-dry	1	1/29/2017
1,2-Dichloroethane	ND	0.0052		mg/Kg-dry	1	1/29/2017
1,1-Dichloroethene	ND	0.0052		mg/Kg-dry	1	1/29/2017
cis-1,2-Dichloroethene	ND	0.0052		mg/Kg-dry	1	1/29/2017
trans-1,2-Dichloroethene	ND	0.0052		mg/Kg-dry	1	1/29/2017
1,2-Dichloropropane	ND	0.0052		mg/Kg-dry	1	1/29/2017
cis-1,3-Dichloropropene	ND	0.0021		mg/Kg-dry	1	1/29/2017
trans-1,3-Dichloropropene	ND	0.0021		mg/Kg-dry	1	1/29/2017
Ethylbenzene	ND	0.0052		mg/Kg-dry	1	1/29/2017
2-Hexanone	ND	0.021		mg/Kg-dry	1	1/29/2017
4-Methyl-2-pentanone	ND	0.021		mg/Kg-dry	1	1/29/2017
Methylene chloride	ND	0.010		mg/Kg-dry	1	1/29/2017
Methyl tert-butyl ether	ND	0.0052		mg/Kg-dry	1	1/29/2017
Styrene	ND	0.0052		mg/Kg-dry	1	1/29/2017
1,1,2,2-Tetrachloroethane	ND	0.0052		mg/Kg-dry	1	1/29/2017
Tetrachloroethene	ND	0.0052		mg/Kg-dry	1	1/29/2017
Toluene	ND	0.0052		mg/Kg-dry	1	1/29/2017
1,1,1-Trichloroethane	ND	0.0052		mg/Kg-dry	1	1/29/2017
1,1,2-Trichloroethane	ND	0.0052		mg/Kg-dry	1	1/29/2017
Trichloroethene	ND	0.0052		mg/Kg-dry	1	1/29/2017
Vinyl chloride	ND	0.0052		mg/Kg-dry	1	1/29/2017
Xylenes, Total	ND	0.016		mg/Kg-dry	1	1/29/2017
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 1/26/2017		Analyst: DM
Acenaphthene	ND	0.039		mg/Kg-dry	1	1/27/2017
Acenaphthylene	ND	0.039		mg/Kg-dry	1	1/27/2017

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Date Reported: February 17, 2017

**ANALYTICAL RESULTS**

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Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171v-29-16 0-1

Work Order: 17010623 Revision 1

Collection Date: 1/20/2017 10:40:00 AM

Project: 81.0220509.02, 2171v Dundee, Palatine, IL

Matrix: Soil

Lab ID: 17010623-018

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 1/26/2017		Analyst: DM
Aniline	ND	0.39		mg/Kg-dry	1	1/27/2017
Anthracene	ND	0.039		mg/Kg-dry	1	1/27/2017
Benz(a)anthracene	0.13	0.039		mg/Kg-dry	1	1/27/2017
Benztidine	ND	0.39		mg/Kg-dry	1	1/27/2017
Benzo(a)pyrene	0.14	0.039		mg/Kg-dry	1	1/27/2017
Benzo(b)fluoranthene	0.15	0.039		mg/Kg-dry	1	1/27/2017
Benzo(g,h,i)perylene	0.11	0.039		mg/Kg-dry	1	1/27/2017
Benzo(k)fluoranthene	0.12	0.039		mg/Kg-dry	1	1/27/2017
Benzoic acid	ND	0.98		mg/Kg-dry	1	1/27/2017
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	1/27/2017
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	1/27/2017
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	1/27/2017
Bis(2-ethylhexyl)phthalate	ND	0.98		mg/Kg-dry	1	1/27/2017
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	1/27/2017
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	1/27/2017
Carbazole	ND	0.20		mg/Kg-dry	1	1/27/2017
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	1/27/2017
4-Chloro-3-methylphenol	ND	0.39		mg/Kg-dry	1	1/27/2017
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	1/27/2017
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	1/27/2017
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	1/27/2017
Chrysene	0.16	0.039		mg/Kg-dry	1	1/27/2017
Dibenz(a,h)anthracene	0.048	0.039		mg/Kg-dry	1	1/27/2017
Dibenzofuran	ND	0.20		mg/Kg-dry	1	1/27/2017
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	1/27/2017
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	1/27/2017
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	1/27/2017
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	1/27/2017
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	1/27/2017
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	1/27/2017
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	1/27/2017
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	1/27/2017
4,6-Dinitro-2-methylphenol	ND	0.39		mg/Kg-dry	1	1/27/2017
2,4-Dinitrophenol	ND	0.98		mg/Kg-dry	1	1/27/2017
2,4-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	1/27/2017
2,6-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	1/27/2017
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	1/27/2017
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	1/27/2017

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**ANALYTICAL RESULTS**

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Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171v-29-16 0-1

Work Order: 17010623 Revision 1

Collection Date: 1/20/2017 10:40:00 AM

Project: 81.0220509.02, 2171v Dundee, Palatine, IL

Matrix: Soil

Lab ID: 17010623-018

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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**Semivolatile Organic Compounds by GC/MS SW8270C (SW3550B) Prep Date: 1/26/2017 Analyst: DM**

Fluoranthene	0.33	0.039		mg/Kg-dry	1	1/27/2017
Fluorene	ND	0.039		mg/Kg-dry	1	1/27/2017
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	1/27/2017
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	1/27/2017
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	1/27/2017
Hexachloroethane	ND	0.20		mg/Kg-dry	1	1/27/2017
Indeno(1,2,3-cd)pyrene	0.10	0.039		mg/Kg-dry	1	1/27/2017
Isophorone	ND	0.20		mg/Kg-dry	1	1/27/2017
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	1/27/2017
2-Methylphenol	ND	0.20		mg/Kg-dry	1	1/27/2017
4-Methylphenol	ND	0.20		mg/Kg-dry	1	1/27/2017
Naphthalene	ND	0.039		mg/Kg-dry	1	1/27/2017
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	1/27/2017
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	1/27/2017
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	1/27/2017
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	1/27/2017
4-Nitrophenol	ND	0.39		mg/Kg-dry	1	1/27/2017
Nitrobenzene	ND	0.039		mg/Kg-dry	1	1/27/2017
N-Nitrosodi-n-propylamine	ND	0.039		mg/Kg-dry	1	1/27/2017
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	1/27/2017
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	1/27/2017
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	1/27/2017
Pentachlorophenol	ND	0.079		mg/Kg-dry	1	1/27/2017
Phenanthrene	0.12	0.039		mg/Kg-dry	1	1/27/2017
Phenol	ND	0.20		mg/Kg-dry	1	1/27/2017
Pyrene	0.26	0.039		mg/Kg-dry	1	1/27/2017
Pyridine	ND	0.79		mg/Kg-dry	1	1/27/2017
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	1/27/2017
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	1/27/2017
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	1/27/2017

**Metals by ICP/MS SW6020 (SW3050B) Prep Date: 1/25/2017 Analyst: JG**

Aluminum	14000	20		mg/Kg-dry	10	1/26/2017
Antimony	ND	2.0		mg/Kg-dry	10	1/26/2017
Arsenic	9.5	1.0		mg/Kg-dry	10	1/26/2017
Barium	100	1.0		mg/Kg-dry	10	1/26/2017
Beryllium	0.75	0.51		mg/Kg-dry	10	1/26/2017
Cadmium	ND	0.51		mg/Kg-dry	10	1/26/2017
Calcium	43000	61		mg/Kg-dry	10	1/26/2017

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
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	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: February 17, 2017

**ANALYTICAL RESULTS**

Date Printed: February 17, 2017

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171v-29-16 0-1

Work Order: 17010623 Revision 1

Collection Date: 1/20/2017 10:40:00 AM

Project: 81.0220509.02, 2171v Dundee, Palatine, IL

Matrix: Soil

Lab ID: 17010623-018

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 1/25/2017	Analyst: JG
Chromium	21	1.0		mg/Kg-dry	10	1/26/2017
Cobalt	11	1.0		mg/Kg-dry	10	1/26/2017
Copper	29	2.5		mg/Kg-dry	10	1/26/2017
Iron	24000	31		mg/Kg-dry	10	1/26/2017
Lead	74	0.51		mg/Kg-dry	10	1/26/2017
Magnesium	23000	31		mg/Kg-dry	10	1/26/2017
Manganese	670	1.0		mg/Kg-dry	10	1/26/2017
Nickel	27	1.0		mg/Kg-dry	10	1/26/2017
Potassium	1700	31		mg/Kg-dry	10	1/26/2017
Selenium	1.5	1.0		mg/Kg-dry	10	1/26/2017
Silver	ND	1.0		mg/Kg-dry	10	1/26/2017
Sodium	190	61		mg/Kg-dry	10	1/26/2017
Thallium	ND	1.0		mg/Kg-dry	10	1/26/2017
Vanadium	27	1.0		mg/Kg-dry	10	1/26/2017
Zinc	79	5.1		mg/Kg-dry	10	1/26/2017
<b>SPLP Metals by ICP/MS</b>	<b>SW1312/6020 (SW3005A)</b>				Prep Date: 2/15/2017	Analyst: JG
Manganese	0.013	0.010		mg/L	2	2/15/2017
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>				Prep Date: 1/27/2017	Analyst: JG
Arsenic	ND	0.010		mg/L	5	1/29/2017
Barium	0.60	0.050		mg/L	5	1/29/2017
Cadmium	ND	0.0050		mg/L	5	1/29/2017
Chromium	ND	0.010		mg/L	5	1/29/2017
Iron	ND	0.25		mg/L	5	1/29/2017
Lead	ND	0.0050		mg/L	5	1/29/2017
Manganese	0.94	0.010		mg/L	5	1/29/2017
Selenium	ND	0.010		mg/L	5	1/29/2017
Silver	ND	0.010		mg/L	5	1/29/2017
<b>TCLP Mercury</b>	<b>SW1311/7470A</b>				Prep Date: 1/26/2017	Analyst: LB
Mercury	ND	0.00020		mg/L	1	1/27/2017
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: 1/27/2017	Analyst: LB
Mercury	0.032	0.024		mg/Kg-dry	1	1/27/2017
<b>Cyanide, Total</b>	<b>SW9012A</b>				Prep Date: 1/25/2017	Analyst: MD
Cyanide	ND	0.30		mg/Kg-dry	1	1/26/2017
<b>pH (25 °C)</b>	<b>SW9045C</b>				Prep Date: 1/27/2017	Analyst: VA
pH	8.0			pH Units	1	1/27/2017

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Date Reported: February 17, 2017

**ANALYTICAL RESULTS**

Date Printed: February 17, 2017

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171v-29-16 0-1

Work Order: 17010623 Revision 1

Collection Date: 1/20/2017 10:40:00 AM

Project: 81.0220509.02, 2171v Dundee, Palatine, IL

Matrix: Soil

Lab ID: 17010623-018

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: 1/25/2017	Analyst: RW
Percent Moisture	16.4	0.2	*	wt%	1	1/26/2017

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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-16-01 (0-5)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 10:45:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-012

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: 8/27/2019		Analyst: <b>CBG</b>
Acetone	ND	0.072		mg/Kg-dry	1	8/31/2019
Benzene	ND	0.0048		mg/Kg-dry	1	8/31/2019
Bromodichloromethane	ND	0.0048		mg/Kg-dry	1	8/31/2019
Bromoform	ND	0.0048		mg/Kg-dry	1	8/31/2019
Bromomethane	ND	0.0096		mg/Kg-dry	1	8/31/2019
2-Butanone	ND	0.072		mg/Kg-dry	1	8/31/2019
Carbon disulfide	ND	0.048		mg/Kg-dry	1	8/31/2019
Carbon tetrachloride	ND	0.0048		mg/Kg-dry	1	8/31/2019
Chlorobenzene	ND	0.0048		mg/Kg-dry	1	8/31/2019
Chloroethane	ND	0.0096		mg/Kg-dry	1	8/31/2019
Chloroform	ND	0.0048		mg/Kg-dry	1	8/31/2019
Chloromethane	ND	0.0096		mg/Kg-dry	1	8/31/2019
Dibromochloromethane	ND	0.0048		mg/Kg-dry	1	8/31/2019
1,1-Dichloroethane	ND	0.0048		mg/Kg-dry	1	8/31/2019
1,2-Dichloroethane	ND	0.0048		mg/Kg-dry	1	8/31/2019
1,1-Dichloroethene	ND	0.0048		mg/Kg-dry	1	8/31/2019
cis-1,2-Dichloroethene	ND	0.0048		mg/Kg-dry	1	8/31/2019
trans-1,2-Dichloroethene	ND	0.0048		mg/Kg-dry	1	8/31/2019
1,2-Dichloropropane	ND	0.0048		mg/Kg-dry	1	8/31/2019
cis-1,3-Dichloropropene	ND	0.0019		mg/Kg-dry	1	8/31/2019
trans-1,3-Dichloropropene	ND	0.0019		mg/Kg-dry	1	8/31/2019
Ethylbenzene	ND	0.0048		mg/Kg-dry	1	8/31/2019
2-Hexanone	ND	0.019		mg/Kg-dry	1	8/31/2019
4-Methyl-2-pentanone	ND	0.019		mg/Kg-dry	1	8/31/2019
Methylene chloride	ND	0.0096		mg/Kg-dry	1	8/31/2019
Methyl tert-butyl ether	ND	0.0048		mg/Kg-dry	1	8/31/2019
Styrene	ND	0.0048		mg/Kg-dry	1	8/31/2019
1,1,2,2-Tetrachloroethane	ND	0.0048		mg/Kg-dry	1	8/31/2019
Tetrachloroethene	ND	0.0048		mg/Kg-dry	1	8/31/2019
Toluene	ND	0.0048		mg/Kg-dry	1	8/31/2019
1,1,1-Trichloroethane	ND	0.0048		mg/Kg-dry	1	8/31/2019
1,1,2-Trichloroethane	ND	0.0048		mg/Kg-dry	1	8/31/2019
Trichloroethene	ND	0.0048		mg/Kg-dry	1	8/31/2019
Vinyl chloride	ND	0.0048		mg/Kg-dry	1	8/31/2019
Xylenes, Total	ND	0.014		mg/Kg-dry	1	8/31/2019
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270D (SW3550B)</b>		Prep Date: 8/28/2019		Analyst: <b>SJC</b>
Acenaphthene	ND	0.040		mg/Kg-dry	1	8/29/2019
Acenaphthylene	ND	0.040		mg/Kg-dry	1	8/29/2019

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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-16-01 (0-5)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 10:45:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-012

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270D (SW3550B)</b>				Prep Date: 8/28/2019	Analyst: SJC
Aniline	ND	0.40		mg/Kg-dry	1	8/29/2019
Anthracene	ND	0.040		mg/Kg-dry	1	8/29/2019
Benz(a)anthracene	ND	0.040		mg/Kg-dry	1	8/29/2019
Benzidine	ND	0.40		mg/Kg-dry	1	8/29/2019
Benzo(a)pyrene	ND	0.040		mg/Kg-dry	1	8/29/2019
Benzo(b)fluoranthene	ND	0.040		mg/Kg-dry	1	8/29/2019
Benzo(g,h,i)perylene	ND	0.040		mg/Kg-dry	1	8/29/2019
Benzo(k)fluoranthene	ND	0.040		mg/Kg-dry	1	8/29/2019
Benzoic acid	ND	1.0		mg/Kg-dry	1	8/29/2019
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	8/29/2019
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	8/29/2019
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	8/29/2019
Bis(2-ethylhexyl)phthalate	ND	1.0		mg/Kg-dry	1	8/29/2019
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/29/2019
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2019
Carbazole	ND	0.20		mg/Kg-dry	1	8/29/2019
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	8/29/2019
4-Chloro-3-methylphenol	ND	0.40		mg/Kg-dry	1	8/29/2019
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	8/29/2019
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	8/29/2019
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/29/2019
Chrysene	ND	0.040		mg/Kg-dry	1	8/29/2019
Dibenz(a,h)anthracene	ND	0.040		mg/Kg-dry	1	8/29/2019
Dibenzofuran	ND	0.20		mg/Kg-dry	1	8/29/2019
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2019
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2019
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2019
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	8/29/2019
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	8/29/2019
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2019
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	8/29/2019
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2019
4,6-Dinitro-2-methylphenol	ND	0.40		mg/Kg-dry	1	8/29/2019
2,4-Dinitrophenol	ND	1.0		mg/Kg-dry	1	8/29/2019
2,4-Dinitrotoluene	ND	0.040		mg/Kg-dry	1	8/29/2019
2,6-Dinitrotoluene	ND	0.040		mg/Kg-dry	1	8/29/2019
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2019
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2019

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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-16-01 (0-5)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 10:45:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-012

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270D (SW3550B)				Prep Date: 8/28/2019	Analyst: SJC
Fluoranthene	ND	0.040		mg/Kg-dry	1	8/29/2019
Fluorene	ND	0.040		mg/Kg-dry	1	8/29/2019
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2019
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	8/29/2019
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	8/29/2019
Hexachloroethane	ND	0.20		mg/Kg-dry	1	8/29/2019
Indeno(1,2,3-cd)pyrene	ND	0.040		mg/Kg-dry	1	8/29/2019
Isophorone	ND	0.20		mg/Kg-dry	1	8/29/2019
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	8/29/2019
2-Methylphenol	ND	0.20		mg/Kg-dry	1	8/29/2019
4-Methylphenol	ND	0.20		mg/Kg-dry	1	8/29/2019
Naphthalene	ND	0.040		mg/Kg-dry	1	8/29/2019
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/29/2019
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/29/2019
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/29/2019
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	8/29/2019
4-Nitrophenol	ND	0.40		mg/Kg-dry	1	8/29/2019
Nitrobenzene	ND	0.040		mg/Kg-dry	1	8/29/2019
N-Nitrosodi-n-propylamine	ND	0.040		mg/Kg-dry	1	8/29/2019
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	8/29/2019
N-Nitrosodiphenylamine	ND	0.040		mg/Kg-dry	1	8/29/2019
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	8/29/2019
Pentachlorophenol	ND	0.040		mg/Kg-dry	1	8/29/2019
Phenanthrene	ND	0.040		mg/Kg-dry	1	8/29/2019
Phenol	ND	0.20		mg/Kg-dry	1	8/29/2019
Pyrene	ND	0.040		mg/Kg-dry	1	8/29/2019
Pyridine	ND	0.80		mg/Kg-dry	1	8/29/2019
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2019
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/29/2019
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/29/2019

Metals by ICP/MS	SW6020A (SW3050B)				Prep Date: 8/30/2019	Analyst: JG
Antimony	ND	2.1		mg/Kg-dry	10	9/3/2019
Arsenic	8.3	1.1		mg/Kg-dry	10	8/31/2019
Barium	120	1.1		mg/Kg-dry	10	8/31/2019
Beryllium	0.91	0.53		mg/Kg-dry	10	8/31/2019
Cadmium	ND	0.53		mg/Kg-dry	10	8/31/2019
Calcium	22000	64		mg/Kg-dry	10	8/31/2019
Chromium	22	1.1		mg/Kg-dry	10	8/31/2019

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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-16-01 (0-5)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 10:45:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-012

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020A (SW3050B)</b>		Prep Date: 8/30/2019		Analyst: JG
Cobalt	12	1.1		mg/Kg-dry	10	8/31/2019
Copper	32	2.7		mg/Kg-dry	10	8/31/2019
Iron	24000	32		mg/Kg-dry	10	8/31/2019
Lead	54	0.53		mg/Kg-dry	10	8/31/2019
Magnesium	11000	32		mg/Kg-dry	10	8/31/2019
Manganese	690	1.1		mg/Kg-dry	10	8/31/2019
Nickel	27	1.1		mg/Kg-dry	10	8/31/2019
Potassium	1700	32		mg/Kg-dry	10	8/31/2019
Selenium	1.3	1.1		mg/Kg-dry	10	8/31/2019
Silver	ND	1.1		mg/Kg-dry	10	8/31/2019
Sodium	99	64		mg/Kg-dry	10	8/31/2019
Thallium	ND	1.1		mg/Kg-dry	10	8/31/2019
Vanadium	29	1.1		mg/Kg-dry	10	8/31/2019
Zinc	86	5.3		mg/Kg-dry	10	8/31/2019
<b>SPLP Metals by ICP/MS</b>		<b>SW1312/6020A (SW3005A)</b>		Prep Date: 8/29/2019		Analyst: MDT
Arsenic	ND	0.0040		mg/L	2	8/30/2019
Barium	ND	0.020		mg/L	2	8/30/2019
Beryllium	ND	0.0020		mg/L	2	8/30/2019
Cadmium	ND	0.0020		mg/L	2	8/30/2019
Chromium	ND	0.016		mg/L	2	8/30/2019
Cobalt	ND	0.0040		mg/L	2	8/30/2019
Copper	ND	0.020		mg/L	2	8/30/2019
Iron	1.3	0.20		mg/L	2	8/30/2019
Lead	0.0031	0.0020		mg/L	2	8/30/2019
Manganese	0.0082	0.0040		mg/L	2	8/30/2019
Nickel	ND	0.0080		mg/L	2	8/30/2019
Selenium	ND	0.0040		mg/L	2	8/30/2019
Silver	ND	0.0040		mg/L	2	8/30/2019
Zinc	ND	0.020		mg/L	2	8/30/2019
<b>TCLP Metals by ICP/MS</b>		<b>SW1311/6020A (SW3005A)</b>		Prep Date: 8/30/2019		Analyst: JG
Arsenic	ND	0.010		mg/L	5	8/31/2019
Barium	0.49	0.010		mg/L	5	8/31/2019
Beryllium	ND	0.0050		mg/L	5	9/3/2019
Cadmium	ND	0.0050		mg/L	5	8/31/2019
Chromium	ND	0.070		mg/L	5	8/31/2019
Cobalt	ND	0.010		mg/L	5	8/31/2019
Copper	ND	0.025		mg/L	5	8/31/2019

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

**Qualifiers:**

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 11, 2019

Date Printed: September 11, 2019

**ANALYTICAL RESULTS**

Client: Huff &amp; Huff, Inc.

Work Order: 19081187 Revision 0

Project: 81.0220509.59, IDOT, Palatine, IL

Lab ID: 19081187-012

Client Sample ID: 2171V2-16-01 (0-5)

Collection Date: 8/23/2019 10:45:00 AM

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020A (SW3005A)</b>		Prep Date: <b>8/30/2019</b>		Analyst: <b>JG</b>	
Iron	ND	0.50		mg/L	5	8/31/2019
Lead	ND	0.0075		mg/L	5	8/31/2019
Manganese	0.17	0.010		mg/L	5	8/31/2019
Nickel	ND	0.035		mg/L	5	8/31/2019
Selenium	ND	0.0050		mg/L	5	8/31/2019
Silver	ND	0.010		mg/L	5	8/31/2019
Zinc	ND	0.10		mg/L	5	8/31/2019
<b>TCLP Mercury</b>	<b>SW1311/7470A</b>		Prep Date: <b>8/30/2019</b>		Analyst: <b>LB</b>	
Mercury	ND	0.00020		mg/L	1	8/30/2019
<b>SPLP Mercury</b>	<b>SW1312/7470A</b>		Prep Date: <b>8/29/2019</b>		Analyst: <b>LB</b>	
Mercury	ND	0.00020		mg/L	1	8/30/2019
<b>Mercury</b>	<b>SW7471B</b>		Prep Date: <b>8/29/2019</b>		Analyst: <b>LB</b>	
Mercury	0.048	0.00019		mg/Kg-dry	1	8/29/2019
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: <b>8/28/2019</b>		Analyst: <b>EDB</b>	
pH	8.02			pH Units	1	8/28/2019
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: <b>9/3/2019</b>		Analyst: <b>RW</b>	
Percent Moisture	16.7	0.2	*	wt%	1	9/4/2019

**Qualifiers:**

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 R - RPD outside accepted recovery limits  
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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-16-01 (5-9)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 10:50:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-013

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW5035/8260B</b>		Prep Date: <b>8/27/2019</b>		Analyst: <b>CBG</b>	
Acetone	ND	0.11		mg/Kg-dry	1	8/31/2019
Benzene	ND	0.0075		mg/Kg-dry	1	8/31/2019
Bromodichloromethane	ND	0.0075		mg/Kg-dry	1	8/31/2019
Bromoform	ND	0.0075		mg/Kg-dry	1	8/31/2019
Bromomethane	ND	0.015		mg/Kg-dry	1	8/31/2019
2-Butanone	ND	0.11		mg/Kg-dry	1	8/31/2019
Carbon disulfide	ND	0.075		mg/Kg-dry	1	8/31/2019
Carbon tetrachloride	ND	0.0075		mg/Kg-dry	1	8/31/2019
Chlorobenzene	ND	0.0075		mg/Kg-dry	1	8/31/2019
Chloroethane	ND	0.015		mg/Kg-dry	1	8/31/2019
Chloroform	ND	0.0075		mg/Kg-dry	1	8/31/2019
Chloromethane	ND	0.015		mg/Kg-dry	1	8/31/2019
Dibromochloromethane	ND	0.0075		mg/Kg-dry	1	8/31/2019
1,1-Dichloroethane	ND	0.0075		mg/Kg-dry	1	8/31/2019
1,2-Dichloroethane	ND	0.0075		mg/Kg-dry	1	8/31/2019
1,1-Dichloroethene	ND	0.0075		mg/Kg-dry	1	8/31/2019
cis-1,2-Dichloroethene	ND	0.0075		mg/Kg-dry	1	8/31/2019
trans-1,2-Dichloroethene	ND	0.0075		mg/Kg-dry	1	8/31/2019
1,2-Dichloropropane	ND	0.0075		mg/Kg-dry	1	8/31/2019
cis-1,3-Dichloropropene	ND	0.0029		mg/Kg-dry	1	8/31/2019
trans-1,3-Dichloropropene	ND	0.0029		mg/Kg-dry	1	8/31/2019
Ethylbenzene	ND	0.0075		mg/Kg-dry	1	8/31/2019
2-Hexanone	ND	0.029		mg/Kg-dry	1	8/31/2019
4-Methyl-2-pentanone	ND	0.029		mg/Kg-dry	1	8/31/2019
Methylene chloride	ND	0.015		mg/Kg-dry	1	8/31/2019
Methyl tert-butyl ether	ND	0.0075		mg/Kg-dry	1	8/31/2019
Styrene	ND	0.0075		mg/Kg-dry	1	8/31/2019
1,1,2,2-Tetrachloroethane	ND	0.0075		mg/Kg-dry	1	8/31/2019
Tetrachloroethene	ND	0.0075		mg/Kg-dry	1	8/31/2019
Toluene	ND	0.0075		mg/Kg-dry	1	8/31/2019
1,1,1-Trichloroethane	ND	0.0075		mg/Kg-dry	1	8/31/2019
1,1,2-Trichloroethane	ND	0.0075		mg/Kg-dry	1	8/31/2019
Trichloroethene	ND	0.0075		mg/Kg-dry	1	8/31/2019
Vinyl chloride	ND	0.0075		mg/Kg-dry	1	8/31/2019
Xylenes, Total	ND	0.023		mg/Kg-dry	1	8/31/2019
<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270D (SW3550B)</b>		Prep Date: <b>8/28/2019</b>		Analyst: <b>SJC</b>	
Acenaphthene	ND	0.050		mg/Kg-dry	1	8/29/2019
Acenaphthylene	ND	0.050		mg/Kg-dry	1	8/29/2019

**Qualifiers:**  
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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-16-01 (5-9)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 10:50:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-013

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270D (SW3550B)</b>				Prep Date: 8/28/2019	Analyst: SJC
Aniline	ND	0.50		mg/Kg-dry	1	8/29/2019
Anthracene	ND	0.050		mg/Kg-dry	1	8/29/2019
Benz(a)anthracene	ND	0.050		mg/Kg-dry	1	8/29/2019
Benzidine	ND	0.50		mg/Kg-dry	1	8/29/2019
Benzo(a)pyrene	ND	0.050		mg/Kg-dry	1	8/29/2019
Benzo(b)fluoranthene	ND	0.050		mg/Kg-dry	1	8/29/2019
Benzo(g,h,i)perylene	ND	0.050		mg/Kg-dry	1	8/29/2019
Benzo(k)fluoranthene	ND	0.050		mg/Kg-dry	1	8/29/2019
Benzoic acid	ND	1.3		mg/Kg-dry	1	8/29/2019
Benzyl alcohol	ND	0.26		mg/Kg-dry	1	8/29/2019
Bis(2-chloroethoxy)methane	ND	0.26		mg/Kg-dry	1	8/29/2019
Bis(2-chloroethyl)ether	ND	0.26		mg/Kg-dry	1	8/29/2019
Bis(2-ethylhexyl)phthalate	ND	1.3		mg/Kg-dry	1	8/29/2019
4-Bromophenyl phenyl ether	ND	0.26		mg/Kg-dry	1	8/29/2019
Butyl benzyl phthalate	ND	0.26		mg/Kg-dry	1	8/29/2019
Carbazole	ND	0.26		mg/Kg-dry	1	8/29/2019
4-Chloroaniline	ND	0.26		mg/Kg-dry	1	8/29/2019
4-Chloro-3-methylphenol	ND	0.50		mg/Kg-dry	1	8/29/2019
2-Chloronaphthalene	ND	0.26		mg/Kg-dry	1	8/29/2019
2-Chlorophenol	ND	0.26		mg/Kg-dry	1	8/29/2019
4-Chlorophenyl phenyl ether	ND	0.26		mg/Kg-dry	1	8/29/2019
Chrysene	ND	0.050		mg/Kg-dry	1	8/29/2019
Dibenz(a,h)anthracene	ND	0.050		mg/Kg-dry	1	8/29/2019
Dibenzofuran	ND	0.26		mg/Kg-dry	1	8/29/2019
1,2-Dichlorobenzene	ND	0.26		mg/Kg-dry	1	8/29/2019
1,3-Dichlorobenzene	ND	0.26		mg/Kg-dry	1	8/29/2019
1,4-Dichlorobenzene	ND	0.26		mg/Kg-dry	1	8/29/2019
3,3'-Dichlorobenzidine	ND	0.26		mg/Kg-dry	1	8/29/2019
2,4-Dichlorophenol	ND	0.26		mg/Kg-dry	1	8/29/2019
Diethyl phthalate	ND	0.26		mg/Kg-dry	1	8/29/2019
2,4-Dimethylphenol	ND	0.26		mg/Kg-dry	1	8/29/2019
Dimethyl phthalate	ND	0.26		mg/Kg-dry	1	8/29/2019
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg-dry	1	8/29/2019
2,4-Dinitrophenol	ND	1.3		mg/Kg-dry	1	8/29/2019
2,4-Dinitrotoluene	ND	0.050		mg/Kg-dry	1	8/29/2019
2,6-Dinitrotoluene	ND	0.050		mg/Kg-dry	1	8/29/2019
Di-n-butyl phthalate	ND	0.26		mg/Kg-dry	1	8/29/2019
Di-n-octyl phthalate	ND	0.26		mg/Kg-dry	1	8/29/2019

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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-16-01 (5-9)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 10:50:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-013

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270D (SW3550B)				Prep Date: 8/28/2019	Analyst: SJC
Fluoranthene	ND	0.050		mg/Kg-dry	1	8/29/2019
Fluorene	ND	0.050		mg/Kg-dry	1	8/29/2019
Hexachlorobenzene	ND	0.26		mg/Kg-dry	1	8/29/2019
Hexachlorobutadiene	ND	0.26		mg/Kg-dry	1	8/29/2019
Hexachlorocyclopentadiene	ND	0.26		mg/Kg-dry	1	8/29/2019
Hexachloroethane	ND	0.26		mg/Kg-dry	1	8/29/2019
Indeno(1,2,3-cd)pyrene	ND	0.050		mg/Kg-dry	1	8/29/2019
Isophorone	ND	0.26		mg/Kg-dry	1	8/29/2019
2-Methylnaphthalene	ND	0.26		mg/Kg-dry	1	8/29/2019
2-Methylphenol	ND	0.26		mg/Kg-dry	1	8/29/2019
4-Methylphenol	ND	0.26		mg/Kg-dry	1	8/29/2019
Naphthalene	ND	0.050		mg/Kg-dry	1	8/29/2019
2-Nitroaniline	ND	0.26		mg/Kg-dry	1	8/29/2019
3-Nitroaniline	ND	0.26		mg/Kg-dry	1	8/29/2019
4-Nitroaniline	ND	0.26		mg/Kg-dry	1	8/29/2019
2-Nitrophenol	ND	0.26		mg/Kg-dry	1	8/29/2019
4-Nitrophenol	ND	0.50		mg/Kg-dry	1	8/29/2019
Nitrobenzene	ND	0.050		mg/Kg-dry	1	8/29/2019
N-Nitrosodi-n-propylamine	ND	0.050		mg/Kg-dry	1	8/29/2019
N-Nitrosodimethylamine	ND	0.26		mg/Kg-dry	1	8/29/2019
N-Nitrosodiphenylamine	ND	0.050		mg/Kg-dry	1	8/29/2019
2, 2'-oxybis(1-Chloropropane)	ND	0.26		mg/Kg-dry	1	8/29/2019
Pentachlorophenol	ND	0.050		mg/Kg-dry	1	8/29/2019
Phenanthrene	ND	0.050		mg/Kg-dry	1	8/29/2019
Phenol	ND	0.26		mg/Kg-dry	1	8/29/2019
Pyrene	ND	0.050		mg/Kg-dry	1	8/29/2019
Pyridine	ND	1.0		mg/Kg-dry	1	8/29/2019
1,2,4-Trichlorobenzene	ND	0.26		mg/Kg-dry	1	8/29/2019
2,4,5-Trichlorophenol	ND	0.26		mg/Kg-dry	1	8/29/2019
2,4,6-Trichlorophenol	ND	0.26		mg/Kg-dry	1	8/29/2019

Metals by ICP/MS	SW6020A (SW3050B)				Prep Date: 8/30/2019	Analyst: JG
Antimony	ND	2.7		mg/Kg-dry	10	9/3/2019
Arsenic	12	1.3		mg/Kg-dry	10	8/31/2019
Barium	130	1.3		mg/Kg-dry	10	8/31/2019
Beryllium	1.1	0.67		mg/Kg-dry	10	8/31/2019
Cadmium	0.80	0.67		mg/Kg-dry	10	8/31/2019
Calcium	44000	81		mg/Kg-dry	10	8/31/2019
Chromium	17	1.3		mg/Kg-dry	10	8/31/2019

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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-16-01 (5-9)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 10:50:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-013

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020A (SW3050B)</b>		Prep Date: 8/30/2019		Analyst: JG
Cobalt	15	1.3		mg/Kg-dry	10	8/31/2019
Copper	47	3.4		mg/Kg-dry	10	8/31/2019
Iron	29000	40		mg/Kg-dry	10	8/31/2019
Lead	15	0.67		mg/Kg-dry	10	8/31/2019
Magnesium	9800	40		mg/Kg-dry	10	8/31/2019
Manganese	250	1.3		mg/Kg-dry	10	8/31/2019
Nickel	40	1.3		mg/Kg-dry	10	8/31/2019
Potassium	790	40		mg/Kg-dry	10	8/31/2019
Selenium	4.0	1.3		mg/Kg-dry	10	8/31/2019
Silver	ND	1.3		mg/Kg-dry	10	8/31/2019
Sodium	200	81		mg/Kg-dry	10	8/31/2019
Thallium	ND	1.3		mg/Kg-dry	10	8/31/2019
Vanadium	50	1.3		mg/Kg-dry	10	8/31/2019
Zinc	71	6.7		mg/Kg-dry	10	8/31/2019
<b>SPLP Metals by ICP/MS</b>		<b>SW1312/6020A (SW3005A)</b>		Prep Date: 8/29/2019		Analyst: MDT
Arsenic	ND	0.0040		mg/L	2	8/30/2019
Barium	ND	0.020		mg/L	2	8/30/2019
Beryllium	ND	0.0020		mg/L	2	8/30/2019
Cadmium	ND	0.0020		mg/L	2	8/30/2019
Chromium	ND	0.016		mg/L	2	8/30/2019
Cobalt	ND	0.0040		mg/L	2	8/30/2019
Copper	ND	0.020		mg/L	2	8/30/2019
Iron	0.47	0.20		mg/L	2	8/30/2019
Lead	ND	0.0020		mg/L	2	8/30/2019
Manganese	ND	0.0040		mg/L	2	8/30/2019
Nickel	ND	0.0080		mg/L	2	8/30/2019
Selenium	0.0079	0.0040		mg/L	2	8/30/2019
Silver	ND	0.0040		mg/L	2	8/30/2019
Zinc	ND	0.020		mg/L	2	8/30/2019
<b>TCLP Metals by ICP/MS</b>		<b>SW1311/6020A (SW3005A)</b>		Prep Date: 8/30/2019		Analyst: JG
Arsenic	ND	0.010		mg/L	5	8/31/2019
Barium	0.65	0.010		mg/L	5	8/31/2019
Beryllium	ND	0.0050		mg/L	5	9/3/2019
Cadmium	ND	0.0050		mg/L	5	8/31/2019
Chromium	ND	0.070		mg/L	5	8/31/2019
Cobalt	0.013	0.010		mg/L	5	8/31/2019
Copper	ND	0.025		mg/L	5	8/31/2019

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-16-01 (5-9)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 10:50:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-013

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020A (SW3005A)</b>		Prep Date: <b>8/30/2019</b>		Analyst: <b>JG</b>	
Iron	ND	0.50		mg/L	5	8/31/2019
Lead	ND	0.0075		mg/L	5	8/31/2019
Manganese	1.5	0.010		mg/L	5	8/31/2019
Nickel	ND	0.035		mg/L	5	8/31/2019
Selenium	ND	0.0050		mg/L	5	8/31/2019
Silver	ND	0.010		mg/L	5	8/31/2019
Zinc	ND	0.10		mg/L	5	8/31/2019
<b>TCLP Mercury</b>	<b>SW1311/7470A</b>		Prep Date: <b>8/30/2019</b>		Analyst: <b>LB</b>	
Mercury	ND	0.00020		mg/L	1	8/30/2019
<b>SPLP Mercury</b>	<b>SW1312/7470A</b>		Prep Date: <b>8/29/2019</b>		Analyst: <b>LB</b>	
Mercury	ND	0.00020		mg/L	1	8/30/2019
<b>Mercury</b>	<b>SW7471B</b>		Prep Date: <b>8/29/2019</b>		Analyst: <b>LB</b>	
Mercury	0.038	0.00027		mg/Kg-dry	1	8/29/2019
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: <b>8/28/2019</b>		Analyst: <b>EDB</b>	
pH	7.94			pH Units	1	8/28/2019
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: <b>9/3/2019</b>		Analyst: <b>RW</b>	
Percent Moisture	34.4	0.2	*	wt%	1	9/4/2019

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-18-01 (0-5)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 10:35:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-010

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW5035/8260B</b>		Prep Date: <b>8/27/2019</b>		Analyst: <b>CBG</b>	
Acetone	ND	0.072		mg/Kg-dry	1	8/31/2019
Benzene	ND	0.0048		mg/Kg-dry	1	8/31/2019
Bromodichloromethane	ND	0.0048		mg/Kg-dry	1	8/31/2019
Bromoform	ND	0.0048		mg/Kg-dry	1	8/31/2019
Bromomethane	ND	0.0096		mg/Kg-dry	1	8/31/2019
2-Butanone	ND	0.072		mg/Kg-dry	1	8/31/2019
Carbon disulfide	ND	0.048		mg/Kg-dry	1	8/31/2019
Carbon tetrachloride	ND	0.0048		mg/Kg-dry	1	8/31/2019
Chlorobenzene	ND	0.0048		mg/Kg-dry	1	8/31/2019
Chloroethane	ND	0.0096		mg/Kg-dry	1	8/31/2019
Chloroform	ND	0.0048		mg/Kg-dry	1	8/31/2019
Chloromethane	ND	0.0096		mg/Kg-dry	1	8/31/2019
Dibromochloromethane	ND	0.0048		mg/Kg-dry	1	8/31/2019
1,1-Dichloroethane	ND	0.0048		mg/Kg-dry	1	8/31/2019
1,2-Dichloroethane	ND	0.0048		mg/Kg-dry	1	8/31/2019
1,1-Dichloroethene	ND	0.0048		mg/Kg-dry	1	8/31/2019
cis-1,2-Dichloroethene	ND	0.0048		mg/Kg-dry	1	8/31/2019
trans-1,2-Dichloroethene	ND	0.0048		mg/Kg-dry	1	8/31/2019
1,2-Dichloropropane	ND	0.0048		mg/Kg-dry	1	8/31/2019
cis-1,3-Dichloropropene	ND	0.0020		mg/Kg-dry	1	8/31/2019
trans-1,3-Dichloropropene	ND	0.0020		mg/Kg-dry	1	8/31/2019
Ethylbenzene	ND	0.0048		mg/Kg-dry	1	8/31/2019
2-Hexanone	ND	0.020		mg/Kg-dry	1	8/31/2019
4-Methyl-2-pentanone	ND	0.020		mg/Kg-dry	1	8/31/2019
Methylene chloride	ND	0.0096		mg/Kg-dry	1	8/31/2019
Methyl tert-butyl ether	ND	0.0048		mg/Kg-dry	1	8/31/2019
Styrene	ND	0.0048		mg/Kg-dry	1	8/31/2019
1,1,2,2-Tetrachloroethane	ND	0.0048		mg/Kg-dry	1	8/31/2019
Tetrachloroethene	ND	0.0048		mg/Kg-dry	1	8/31/2019
Toluene	ND	0.0048		mg/Kg-dry	1	8/31/2019
1,1,1-Trichloroethane	ND	0.0048		mg/Kg-dry	1	8/31/2019
1,1,2-Trichloroethane	ND	0.0048		mg/Kg-dry	1	8/31/2019
Trichloroethene	ND	0.0048		mg/Kg-dry	1	8/31/2019
Vinyl chloride	ND	0.0048		mg/Kg-dry	1	8/31/2019
Xylenes, Total	ND	0.015		mg/Kg-dry	1	8/31/2019
<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270D (SW3550B)</b>		Prep Date: <b>8/28/2019</b>		Analyst: <b>SJC</b>	
Acenaphthene	ND	0.040		mg/Kg-dry	1	8/29/2019
Acenaphthylene	ND	0.040		mg/Kg-dry	1	8/29/2019

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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-18-01 (0-5)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 10:35:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-010

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270D (SW3550B)</b>		Prep Date: 8/28/2019		Analyst: SJC
Aniline	ND	0.40		mg/Kg-dry	1	8/29/2019
Anthracene	ND	0.040		mg/Kg-dry	1	8/29/2019
Benz(a)anthracene	ND	0.040		mg/Kg-dry	1	8/29/2019
Benzidine	ND	0.40		mg/Kg-dry	1	8/29/2019
Benzo(a)pyrene	ND	0.040		mg/Kg-dry	1	8/29/2019
Benzo(b)fluoranthene	ND	0.040		mg/Kg-dry	1	8/29/2019
Benzo(g,h,i)perylene	ND	0.040		mg/Kg-dry	1	8/29/2019
Benzo(k)fluoranthene	ND	0.040		mg/Kg-dry	1	8/29/2019
Benzoic acid	ND	1.0		mg/Kg-dry	1	8/29/2019
Benzyl alcohol	ND	0.21		mg/Kg-dry	1	8/29/2019
Bis(2-chloroethoxy)methane	ND	0.21		mg/Kg-dry	1	8/29/2019
Bis(2-chloroethyl)ether	ND	0.21		mg/Kg-dry	1	8/29/2019
Bis(2-ethylhexyl)phthalate	ND	1.0		mg/Kg-dry	1	8/29/2019
4-Bromophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	8/29/2019
Butyl benzyl phthalate	ND	0.21		mg/Kg-dry	1	8/29/2019
Carbazole	ND	0.21		mg/Kg-dry	1	8/29/2019
4-Chloroaniline	ND	0.21		mg/Kg-dry	1	8/29/2019
4-Chloro-3-methylphenol	ND	0.40		mg/Kg-dry	1	8/29/2019
2-Chloronaphthalene	ND	0.21		mg/Kg-dry	1	8/29/2019
2-Chlorophenol	ND	0.21		mg/Kg-dry	1	8/29/2019
4-Chlorophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	8/29/2019
Chrysene	ND	0.040		mg/Kg-dry	1	8/29/2019
Dibenz(a,h)anthracene	ND	0.040		mg/Kg-dry	1	8/29/2019
Dibenzofuran	ND	0.21		mg/Kg-dry	1	8/29/2019
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	8/29/2019
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	8/29/2019
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	8/29/2019
3,3'-Dichlorobenzidine	ND	0.21		mg/Kg-dry	1	8/29/2019
2,4-Dichlorophenol	ND	0.21		mg/Kg-dry	1	8/29/2019
Diethyl phthalate	ND	0.21		mg/Kg-dry	1	8/29/2019
2,4-Dimethylphenol	ND	0.21		mg/Kg-dry	1	8/29/2019
Dimethyl phthalate	ND	0.21		mg/Kg-dry	1	8/29/2019
4,6-Dinitro-2-methylphenol	ND	0.40		mg/Kg-dry	1	8/29/2019
2,4-Dinitrophenol	ND	1.0		mg/Kg-dry	1	8/29/2019
2,4-Dinitrotoluene	ND	0.040		mg/Kg-dry	1	8/29/2019
2,6-Dinitrotoluene	ND	0.040		mg/Kg-dry	1	8/29/2019
Di-n-butyl phthalate	ND	0.21		mg/Kg-dry	1	8/29/2019
Di-n-octyl phthalate	ND	0.21		mg/Kg-dry	1	8/29/2019

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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-18-01 (0-5)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 10:35:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-010

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270D (SW3550B)				Prep Date: 8/28/2019	Analyst: SJC
Fluoranthene	ND	0.040		mg/Kg-dry	1	8/29/2019
Fluorene	ND	0.040		mg/Kg-dry	1	8/29/2019
Hexachlorobenzene	ND	0.21		mg/Kg-dry	1	8/29/2019
Hexachlorobutadiene	ND	0.21		mg/Kg-dry	1	8/29/2019
Hexachlorocyclopentadiene	ND	0.21		mg/Kg-dry	1	8/29/2019
Hexachloroethane	ND	0.21		mg/Kg-dry	1	8/29/2019
Indeno(1,2,3-cd)pyrene	ND	0.040		mg/Kg-dry	1	8/29/2019
Isophorone	ND	0.21		mg/Kg-dry	1	8/29/2019
2-Methylnaphthalene	ND	0.21		mg/Kg-dry	1	8/29/2019
2-Methylphenol	ND	0.21		mg/Kg-dry	1	8/29/2019
4-Methylphenol	ND	0.21		mg/Kg-dry	1	8/29/2019
Naphthalene	ND	0.040		mg/Kg-dry	1	8/29/2019
2-Nitroaniline	ND	0.21		mg/Kg-dry	1	8/29/2019
3-Nitroaniline	ND	0.21		mg/Kg-dry	1	8/29/2019
4-Nitroaniline	ND	0.21		mg/Kg-dry	1	8/29/2019
2-Nitrophenol	ND	0.21		mg/Kg-dry	1	8/29/2019
4-Nitrophenol	ND	0.40		mg/Kg-dry	1	8/29/2019
Nitrobenzene	ND	0.040		mg/Kg-dry	1	8/29/2019
N-Nitrosodi-n-propylamine	ND	0.040		mg/Kg-dry	1	8/29/2019
N-Nitrosodimethylamine	ND	0.21		mg/Kg-dry	1	8/29/2019
N-Nitrosodiphenylamine	ND	0.040		mg/Kg-dry	1	8/29/2019
2, 2'-oxybis(1-Chloropropane)	ND	0.21		mg/Kg-dry	1	8/29/2019
Pentachlorophenol	ND	0.040		mg/Kg-dry	1	8/29/2019
Phenanthrene	ND	0.040		mg/Kg-dry	1	8/29/2019
Phenol	ND	0.21		mg/Kg-dry	1	8/29/2019
Pyrene	ND	0.040		mg/Kg-dry	1	8/29/2019
Pyridine	ND	0.82		mg/Kg-dry	1	8/29/2019
1,2,4-Trichlorobenzene	ND	0.21		mg/Kg-dry	1	8/29/2019
2,4,5-Trichlorophenol	ND	0.21		mg/Kg-dry	1	8/29/2019
2,4,6-Trichlorophenol	ND	0.21		mg/Kg-dry	1	8/29/2019

Metals by ICP/MS	SW6020A (SW3050B)				Prep Date: 8/30/2019	Analyst: JG
Antimony	ND	2.1		mg/Kg-dry	10	9/3/2019
Arsenic	10	1.1		mg/Kg-dry	10	8/31/2019
Barium	110	1.1		mg/Kg-dry	10	8/31/2019
Beryllium	0.89	0.54		mg/Kg-dry	10	8/31/2019
Cadmium	ND	0.54		mg/Kg-dry	10	8/31/2019
Calcium	20000	64		mg/Kg-dry	10	8/31/2019
Chromium	24	1.1		mg/Kg-dry	10	8/31/2019

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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-18-01 (0-5)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 10:35:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-010

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020A (SW3050B)</b>		Prep Date: 8/30/2019		Analyst: JG
Cobalt	13	1.1		mg/Kg-dry	10	8/31/2019
Copper	25	2.7		mg/Kg-dry	10	8/31/2019
Iron	27000	32		mg/Kg-dry	10	8/31/2019
Lead	30	0.54		mg/Kg-dry	10	8/31/2019
Magnesium	12000	32		mg/Kg-dry	10	8/31/2019
Manganese	660	1.1		mg/Kg-dry	10	8/31/2019
Nickel	29	1.1		mg/Kg-dry	10	8/31/2019
Potassium	1800	32		mg/Kg-dry	10	8/31/2019
Selenium	1.2	1.1		mg/Kg-dry	10	8/31/2019
Silver	ND	1.1		mg/Kg-dry	10	8/31/2019
Sodium	240	64		mg/Kg-dry	10	8/31/2019
Thallium	ND	1.1		mg/Kg-dry	10	8/31/2019
Vanadium	35	1.1		mg/Kg-dry	10	8/31/2019
Zinc	73	5.4		mg/Kg-dry	10	8/31/2019
<b>SPLP Metals by ICP/MS</b>		<b>SW1312/6020A (SW3005A)</b>		Prep Date: 8/29/2019		Analyst: MDT
Arsenic	ND	0.0040		mg/L	2	8/30/2019
Barium	0.020	0.020		mg/L	2	8/30/2019
Beryllium	ND	0.0020		mg/L	2	8/30/2019
Cadmium	ND	0.0020		mg/L	2	8/30/2019
Chromium	ND	0.016		mg/L	2	8/30/2019
Cobalt	ND	0.0040		mg/L	2	8/30/2019
Copper	ND	0.020		mg/L	2	8/30/2019
Iron	2.6	0.20		mg/L	2	8/30/2019
Lead	0.0038	0.0020		mg/L	2	8/30/2019
Manganese	0.035	0.0040		mg/L	2	8/30/2019
Nickel	ND	0.0080		mg/L	2	8/30/2019
Selenium	ND	0.0040		mg/L	2	8/30/2019
Silver	ND	0.0040		mg/L	2	8/30/2019
Zinc	ND	0.020		mg/L	2	8/30/2019
<b>TCLP Metals by ICP/MS</b>		<b>SW1311/6020A (SW3005A)</b>		Prep Date: 8/30/2019		Analyst: JG
Arsenic	ND	0.010		mg/L	5	8/31/2019
Barium	0.66	0.010		mg/L	5	8/31/2019
Beryllium	ND	0.0050		mg/L	5	9/3/2019
Cadmium	ND	0.0050		mg/L	5	8/31/2019
Chromium	ND	0.070		mg/L	5	8/31/2019
Cobalt	0.028	0.010		mg/L	5	8/31/2019
Copper	ND	0.025		mg/L	5	8/31/2019

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**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-18-01 (0-5)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 10:35:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-010

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020A (SW3005A)</b>		Prep Date: <b>8/30/2019</b>		Analyst: <b>JG</b>	
Iron	ND	0.50		mg/L	5	8/31/2019
Lead	0.011	0.0075		mg/L	5	8/31/2019
Manganese	8.0	0.010		mg/L	5	8/31/2019
Nickel	ND	0.035		mg/L	5	8/31/2019
Selenium	ND	0.0050		mg/L	5	8/31/2019
Silver	ND	0.010		mg/L	5	8/31/2019
Zinc	ND	0.10		mg/L	5	8/31/2019
<b>TCLP Mercury</b>	<b>SW1311/7470A</b>		Prep Date: <b>8/30/2019</b>		Analyst: <b>LB</b>	
Mercury	ND	0.00020		mg/L	1	8/30/2019
<b>SPLP Mercury</b>	<b>SW1312/7470A</b>		Prep Date: <b>8/29/2019</b>		Analyst: <b>LB</b>	
Mercury	ND	0.00020		mg/L	1	8/30/2019
<b>Mercury</b>	<b>SW7471B</b>		Prep Date: <b>8/29/2019</b>		Analyst: <b>LB</b>	
Mercury	0.032	0.00024		mg/Kg-dry	1	8/29/2019
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: <b>8/28/2019</b>		Analyst: <b>EDB</b>	
pH	7.45			pH Units	1	8/28/2019
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: <b>9/3/2019</b>		Analyst: <b>RW</b>	
Percent Moisture	18.0	0.2	*	wt%	1	9/4/2019

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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-18-01 (5-8)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 10:40:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-011

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: <b>8/27/2019</b>		Analyst: <b>CBG</b>
Acetone	0.19	0.13		mg/Kg-dry	1	8/31/2019
Benzene	ND	0.0084		mg/Kg-dry	1	8/31/2019
Bromodichloromethane	ND	0.0084		mg/Kg-dry	1	8/31/2019
Bromoform	ND	0.0084		mg/Kg-dry	1	8/31/2019
Bromomethane	ND	0.017		mg/Kg-dry	1	8/31/2019
2-Butanone	ND	0.13		mg/Kg-dry	1	8/31/2019
Carbon disulfide	ND	0.084		mg/Kg-dry	1	8/31/2019
Carbon tetrachloride	ND	0.0084		mg/Kg-dry	1	8/31/2019
Chlorobenzene	ND	0.0084		mg/Kg-dry	1	8/31/2019
Chloroethane	ND	0.017		mg/Kg-dry	1	8/31/2019
Chloroform	ND	0.0084		mg/Kg-dry	1	8/31/2019
Chloromethane	ND	0.017		mg/Kg-dry	1	8/31/2019
Dibromochloromethane	ND	0.0084		mg/Kg-dry	1	8/31/2019
1,1-Dichloroethane	ND	0.0084		mg/Kg-dry	1	8/31/2019
1,2-Dichloroethane	ND	0.0084		mg/Kg-dry	1	8/31/2019
1,1-Dichloroethene	ND	0.0084		mg/Kg-dry	1	8/31/2019
cis-1,2-Dichloroethene	ND	0.0084		mg/Kg-dry	1	8/31/2019
trans-1,2-Dichloroethene	ND	0.0084		mg/Kg-dry	1	8/31/2019
1,2-Dichloropropane	ND	0.0084		mg/Kg-dry	1	8/31/2019
cis-1,3-Dichloropropene	ND	0.0033		mg/Kg-dry	1	8/31/2019
trans-1,3-Dichloropropene	ND	0.0033		mg/Kg-dry	1	8/31/2019
Ethylbenzene	ND	0.0084		mg/Kg-dry	1	8/31/2019
2-Hexanone	ND	0.033		mg/Kg-dry	1	8/31/2019
4-Methyl-2-pentanone	ND	0.033		mg/Kg-dry	1	8/31/2019
Methylene chloride	ND	0.017		mg/Kg-dry	1	8/31/2019
Methyl tert-butyl ether	ND	0.0084		mg/Kg-dry	1	8/31/2019
Styrene	ND	0.0084		mg/Kg-dry	1	8/31/2019
1,1,2,2-Tetrachloroethane	ND	0.0084		mg/Kg-dry	1	8/31/2019
Tetrachloroethene	ND	0.0084		mg/Kg-dry	1	8/31/2019
Toluene	ND	0.0084		mg/Kg-dry	1	8/31/2019
1,1,1-Trichloroethane	ND	0.0084		mg/Kg-dry	1	8/31/2019
1,1,2-Trichloroethane	ND	0.0084		mg/Kg-dry	1	8/31/2019
Trichloroethene	ND	0.0084		mg/Kg-dry	1	8/31/2019
Vinyl chloride	ND	0.0084		mg/Kg-dry	1	8/31/2019
Xylenes, Total	ND	0.025		mg/Kg-dry	1	8/31/2019
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270D (SW3550B)</b>		Prep Date: <b>8/28/2019</b>		Analyst: <b>SJC</b>
Acenaphthene	ND	0.053		mg/Kg-dry	1	8/29/2019
Acenaphthylene	ND	0.053		mg/Kg-dry	1	8/29/2019

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-18-01 (5-8)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 10:40:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-011

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270D (SW3550B)</b>		Prep Date: 8/28/2019		Analyst: SJC
Aniline	ND	0.53		mg/Kg-dry	1	8/29/2019
Anthracene	ND	0.053		mg/Kg-dry	1	8/29/2019
Benz(a)anthracene	0.29	0.053		mg/Kg-dry	1	8/29/2019
Benzidine	ND	0.53		mg/Kg-dry	1	8/29/2019
Benzo(a)pyrene	0.31	0.053		mg/Kg-dry	1	8/29/2019
Benzo(b)fluoranthene	0.34	0.053		mg/Kg-dry	1	8/29/2019
Benzo(g,h,i)perylene	0.23	0.053		mg/Kg-dry	1	8/29/2019
Benzo(k)fluoranthene	0.27	0.053		mg/Kg-dry	1	8/29/2019
Benzoic acid	ND	1.3		mg/Kg-dry	1	8/29/2019
Benzyl alcohol	ND	0.28		mg/Kg-dry	1	8/29/2019
Bis(2-chloroethoxy)methane	ND	0.28		mg/Kg-dry	1	8/29/2019
Bis(2-chloroethyl)ether	ND	0.28		mg/Kg-dry	1	8/29/2019
Bis(2-ethylhexyl)phthalate	ND	1.3		mg/Kg-dry	1	8/29/2019
4-Bromophenyl phenyl ether	ND	0.28		mg/Kg-dry	1	8/29/2019
Butyl benzyl phthalate	ND	0.28		mg/Kg-dry	1	8/29/2019
Carbazole	ND	0.28		mg/Kg-dry	1	8/29/2019
4-Chloroaniline	ND	0.28		mg/Kg-dry	1	8/29/2019
4-Chloro-3-methylphenol	ND	0.53		mg/Kg-dry	1	8/29/2019
2-Chloronaphthalene	ND	0.28		mg/Kg-dry	1	8/29/2019
2-Chlorophenol	ND	0.28		mg/Kg-dry	1	8/29/2019
4-Chlorophenyl phenyl ether	ND	0.28		mg/Kg-dry	1	8/29/2019
Chrysene	0.33	0.053		mg/Kg-dry	1	8/29/2019
Dibenz(a,h)anthracene	ND	0.053		mg/Kg-dry	1	8/29/2019
Dibenzofuran	ND	0.28		mg/Kg-dry	1	8/29/2019
1,2-Dichlorobenzene	ND	0.28		mg/Kg-dry	1	8/29/2019
1,3-Dichlorobenzene	ND	0.28		mg/Kg-dry	1	8/29/2019
1,4-Dichlorobenzene	ND	0.28		mg/Kg-dry	1	8/29/2019
3,3'-Dichlorobenzidine	ND	0.28		mg/Kg-dry	1	8/29/2019
2,4-Dichlorophenol	ND	0.28		mg/Kg-dry	1	8/29/2019
Diethyl phthalate	ND	0.28		mg/Kg-dry	1	8/29/2019
2,4-Dimethylphenol	ND	0.28		mg/Kg-dry	1	8/29/2019
Dimethyl phthalate	ND	0.28		mg/Kg-dry	1	8/29/2019
4,6-Dinitro-2-methylphenol	ND	0.53		mg/Kg-dry	1	8/29/2019
2,4-Dinitrophenol	ND	1.3		mg/Kg-dry	1	8/29/2019
2,4-Dinitrotoluene	ND	0.053		mg/Kg-dry	1	8/29/2019
2,6-Dinitrotoluene	ND	0.053		mg/Kg-dry	1	8/29/2019
Di-n-butyl phthalate	ND	0.28		mg/Kg-dry	1	8/29/2019
Di-n-octyl phthalate	ND	0.28		mg/Kg-dry	1	8/29/2019

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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-18-01 (5-8)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 10:40:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-011

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270D (SW3550B)				Prep Date: 8/28/2019	Analyst: SJC
Fluoranthene	0.65	0.053		mg/Kg-dry	1	8/29/2019
Fluorene	ND	0.053		mg/Kg-dry	1	8/29/2019
Hexachlorobenzene	ND	0.28		mg/Kg-dry	1	8/29/2019
Hexachlorobutadiene	ND	0.28		mg/Kg-dry	1	8/29/2019
Hexachlorocyclopentadiene	ND	0.28		mg/Kg-dry	1	8/29/2019
Hexachloroethane	ND	0.28		mg/Kg-dry	1	8/29/2019
Indeno(1,2,3-cd)pyrene	0.23	0.053		mg/Kg-dry	1	8/29/2019
Isophorone	ND	0.28		mg/Kg-dry	1	8/29/2019
2-Methylnaphthalene	ND	0.28		mg/Kg-dry	1	8/29/2019
2-Methylphenol	ND	0.28		mg/Kg-dry	1	8/29/2019
4-Methylphenol	ND	0.28		mg/Kg-dry	1	8/29/2019
Naphthalene	ND	0.053		mg/Kg-dry	1	8/29/2019
2-Nitroaniline	ND	0.28		mg/Kg-dry	1	8/29/2019
3-Nitroaniline	ND	0.28		mg/Kg-dry	1	8/29/2019
4-Nitroaniline	ND	0.28		mg/Kg-dry	1	8/29/2019
2-Nitrophenol	ND	0.28		mg/Kg-dry	1	8/29/2019
4-Nitrophenol	ND	0.53		mg/Kg-dry	1	8/29/2019
Nitrobenzene	ND	0.053		mg/Kg-dry	1	8/29/2019
N-Nitrosodi-n-propylamine	ND	0.053		mg/Kg-dry	1	8/29/2019
N-Nitrosodimethylamine	ND	0.28		mg/Kg-dry	1	8/29/2019
N-Nitrosodiphenylamine	ND	0.053		mg/Kg-dry	1	8/29/2019
2, 2'-oxybis(1-Chloropropane)	ND	0.28		mg/Kg-dry	1	8/29/2019
Pentachlorophenol	ND	0.053		mg/Kg-dry	1	8/29/2019
Phenanthrene	0.34	0.053		mg/Kg-dry	1	8/29/2019
Phenol	ND	0.28		mg/Kg-dry	1	8/29/2019
Pyrene	0.48	0.053		mg/Kg-dry	1	8/29/2019
Pyridine	ND	1.1		mg/Kg-dry	1	8/29/2019
1,2,4-Trichlorobenzene	ND	0.28		mg/Kg-dry	1	8/29/2019
2,4,5-Trichlorophenol	ND	0.28		mg/Kg-dry	1	8/29/2019
2,4,6-Trichlorophenol	ND	0.28		mg/Kg-dry	1	8/29/2019

Metals by ICP/MS	SW6020A (SW3050B)				Prep Date: 8/30/2019	Analyst: JG
Antimony	ND	3.0		mg/Kg-dry	10	9/3/2019
Arsenic	7.8	1.5		mg/Kg-dry	10	8/31/2019
Barium	140	1.5		mg/Kg-dry	10	8/31/2019
Beryllium	1.1	0.74		mg/Kg-dry	10	8/31/2019
Cadmium	ND	0.74		mg/Kg-dry	10	8/31/2019
Calcium	42000	89		mg/Kg-dry	10	8/31/2019
Chromium	22	1.5		mg/Kg-dry	10	8/31/2019

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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-18-01 (5-8)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 10:40:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-011

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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**Metals by ICP/MS****SW6020A (SW3050B)**

Prep Date: 8/30/2019

Analyst: JG

Cobalt	15	1.5		mg/Kg-dry	10	8/31/2019
Copper	49	3.7		mg/Kg-dry	10	8/31/2019
Iron	24000	45		mg/Kg-dry	10	8/31/2019
Lead	26	0.74		mg/Kg-dry	10	8/31/2019
Magnesium	7600	45		mg/Kg-dry	10	8/31/2019
Manganese	350	1.5		mg/Kg-dry	10	8/31/2019
Nickel	46	1.5		mg/Kg-dry	10	8/31/2019
Potassium	1200	45		mg/Kg-dry	10	8/31/2019
Selenium	4.7	1.5		mg/Kg-dry	10	8/31/2019
Silver	ND	1.5		mg/Kg-dry	10	8/31/2019
Sodium	230	89		mg/Kg-dry	10	8/31/2019
Thallium	ND	1.5		mg/Kg-dry	10	8/31/2019
Vanadium	33	1.5		mg/Kg-dry	10	8/31/2019
Zinc	100	7.4		mg/Kg-dry	10	8/31/2019

**SPLP Metals by ICP/MS****SW1312/6020A (SW3005A)**

Prep Date: 8/29/2019

Analyst: MDT

Arsenic	ND	0.0040		mg/L	2	8/30/2019
Barium	ND	0.020		mg/L	2	8/30/2019
Beryllium	ND	0.0020		mg/L	2	8/30/2019
Cadmium	ND	0.0020		mg/L	2	8/30/2019
Chromium	ND	0.016		mg/L	2	8/30/2019
Cobalt	ND	0.0040		mg/L	2	8/30/2019
Copper	ND	0.020		mg/L	2	8/30/2019
Iron	0.53	0.20		mg/L	2	8/30/2019
Lead	ND	0.0020		mg/L	2	8/30/2019
Manganese	ND	0.0040		mg/L	2	8/30/2019
Nickel	ND	0.0080		mg/L	2	8/30/2019
Selenium	ND	0.0040		mg/L	2	8/30/2019
Silver	ND	0.0040		mg/L	2	8/30/2019
Zinc	ND	0.020		mg/L	2	8/30/2019

**TCLP Metals by ICP/MS****SW1311/6020A (SW3005A)**

Prep Date: 8/30/2019

Analyst: JG

Arsenic	ND	0.010		mg/L	5	8/31/2019
Barium	0.64	0.010		mg/L	5	8/31/2019
Beryllium	ND	0.0050		mg/L	5	9/3/2019
Cadmium	ND	0.0050		mg/L	5	8/31/2019
Chromium	ND	0.070		mg/L	5	8/31/2019
Cobalt	ND	0.010		mg/L	5	8/31/2019
Copper	ND	0.025		mg/L	5	8/31/2019

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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-18-01 (5-8)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 10:40:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-011

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020A (SW3005A)</b>		Prep Date: <b>8/30/2019</b>		Analyst: <b>JG</b>	
Iron	ND	0.50		mg/L	5	8/31/2019
Lead	ND	0.0075		mg/L	5	8/31/2019
Manganese	3.0	0.010		mg/L	5	8/31/2019
Nickel	ND	0.035		mg/L	5	8/31/2019
Selenium	ND	0.0050		mg/L	5	8/31/2019
Silver	ND	0.010		mg/L	5	8/31/2019
Zinc	ND	0.10		mg/L	5	8/31/2019
<b>TCLP Mercury</b>	<b>SW1311/7470A</b>		Prep Date: <b>8/30/2019</b>		Analyst: <b>LB</b>	
Mercury	ND	0.00020		mg/L	1	8/30/2019
<b>SPLP Mercury</b>	<b>SW1312/7470A</b>		Prep Date: <b>8/29/2019</b>		Analyst: <b>LB</b>	
Mercury	ND	0.00020		mg/L	1	8/30/2019
<b>Mercury</b>	<b>SW7471B</b>		Prep Date: <b>8/29/2019</b>		Analyst: <b>LB</b>	
Mercury	0.052	0.026		mg/Kg-dry	1	8/29/2019
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: <b>8/28/2019</b>		Analyst: <b>EDB</b>	
pH	7.30			pH Units	1	8/28/2019
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: <b>9/3/2019</b>		Analyst: <b>RW</b>	
Percent Moisture	39.4	0.2	*	wt%	1	9/4/2019

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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-20-01 (0-5)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 10:20:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-008

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: <b>8/27/2019</b>		Analyst: <b>CBG</b>
Acetone	ND	0.068		mg/Kg-dry	1	8/31/2019
Benzene	ND	0.0045		mg/Kg-dry	1	8/31/2019
Bromodichloromethane	ND	0.0045		mg/Kg-dry	1	8/31/2019
Bromoform	ND	0.0045		mg/Kg-dry	1	8/31/2019
Bromomethane	ND	0.0092		mg/Kg-dry	1	8/31/2019
2-Butanone	ND	0.068		mg/Kg-dry	1	8/31/2019
Carbon disulfide	ND	0.045		mg/Kg-dry	1	8/31/2019
Carbon tetrachloride	ND	0.0045		mg/Kg-dry	1	8/31/2019
Chlorobenzene	ND	0.0045		mg/Kg-dry	1	8/31/2019
Chloroethane	ND	0.0092		mg/Kg-dry	1	8/31/2019
Chloroform	ND	0.0045		mg/Kg-dry	1	8/31/2019
Chloromethane	ND	0.0092		mg/Kg-dry	1	8/31/2019
Dibromochloromethane	ND	0.0045		mg/Kg-dry	1	8/31/2019
1,1-Dichloroethane	ND	0.0045		mg/Kg-dry	1	8/31/2019
1,2-Dichloroethane	ND	0.0045		mg/Kg-dry	1	8/31/2019
1,1-Dichloroethene	ND	0.0045		mg/Kg-dry	1	8/31/2019
cis-1,2-Dichloroethene	ND	0.0045		mg/Kg-dry	1	8/31/2019
trans-1,2-Dichloroethene	ND	0.0045		mg/Kg-dry	1	8/31/2019
1,2-Dichloropropane	ND	0.0045		mg/Kg-dry	1	8/31/2019
cis-1,3-Dichloropropene	ND	0.0018		mg/Kg-dry	1	8/31/2019
trans-1,3-Dichloropropene	ND	0.0018		mg/Kg-dry	1	8/31/2019
Ethylbenzene	ND	0.0045		mg/Kg-dry	1	8/31/2019
2-Hexanone	ND	0.018		mg/Kg-dry	1	8/31/2019
4-Methyl-2-pentanone	ND	0.018		mg/Kg-dry	1	8/31/2019
Methylene chloride	ND	0.0092		mg/Kg-dry	1	8/31/2019
Methyl tert-butyl ether	ND	0.0045		mg/Kg-dry	1	8/31/2019
Styrene	ND	0.0045		mg/Kg-dry	1	8/31/2019
1,1,2,2-Tetrachloroethane	ND	0.0045		mg/Kg-dry	1	8/31/2019
Tetrachloroethene	ND	0.0045		mg/Kg-dry	1	8/31/2019
Toluene	ND	0.0045		mg/Kg-dry	1	8/31/2019
1,1,1-Trichloroethane	ND	0.0045		mg/Kg-dry	1	8/31/2019
1,1,2-Trichloroethane	ND	0.0045		mg/Kg-dry	1	8/31/2019
Trichloroethene	ND	0.0045		mg/Kg-dry	1	8/31/2019
Vinyl chloride	ND	0.0045		mg/Kg-dry	1	8/31/2019
Xylenes, Total	ND	0.013		mg/Kg-dry	1	8/31/2019
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270D (SW3550B)</b>		Prep Date: <b>8/28/2019</b>		Analyst: <b>SJC</b>
Acenaphthene	ND	0.039		mg/Kg-dry	1	8/29/2019
Acenaphthylene	ND	0.039		mg/Kg-dry	1	8/29/2019

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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-20-01 (0-5)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 10:20:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-008

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270D (SW3550B)</b>		Prep Date: 8/28/2019		Analyst: SJC
Aniline	ND	0.39		mg/Kg-dry	1	8/29/2019
Anthracene	0.061	0.039		mg/Kg-dry	1	8/29/2019
Benz(a)anthracene	0.56	0.039		mg/Kg-dry	1	8/29/2019
Benzidine	ND	0.39		mg/Kg-dry	1	8/29/2019
Benzo(a)pyrene	0.58	0.039		mg/Kg-dry	1	8/29/2019
Benzo(b)fluoranthene	0.59	0.039		mg/Kg-dry	1	8/29/2019
Benzo(g,h,i)perylene	0.41	0.039		mg/Kg-dry	1	8/29/2019
Benzo(k)fluoranthene	0.50	0.039		mg/Kg-dry	1	8/29/2019
Benzoic acid	ND	0.98		mg/Kg-dry	1	8/29/2019
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	8/29/2019
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	8/29/2019
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	8/29/2019
Bis(2-ethylhexyl)phthalate	ND	0.98		mg/Kg-dry	1	8/29/2019
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/29/2019
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2019
Carbazole	ND	0.20		mg/Kg-dry	1	8/29/2019
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	8/29/2019
4-Chloro-3-methylphenol	ND	0.39		mg/Kg-dry	1	8/29/2019
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	8/29/2019
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	8/29/2019
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/29/2019
Chrysene	0.61	0.039		mg/Kg-dry	1	8/29/2019
Dibenz(a,h)anthracene	0.18	0.039		mg/Kg-dry	1	8/29/2019
Dibenzofuran	ND	0.20		mg/Kg-dry	1	8/29/2019
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2019
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2019
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2019
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	8/29/2019
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	8/29/2019
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2019
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	8/29/2019
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2019
4,6-Dinitro-2-methylphenol	ND	0.39		mg/Kg-dry	1	8/29/2019
2,4-Dinitrophenol	ND	0.98		mg/Kg-dry	1	8/29/2019
2,4-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	8/29/2019
2,6-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	8/29/2019
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2019
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2019

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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

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Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-20-01 (0-5)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 10:20:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-008

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270D (SW3550B)				Prep Date: 8/28/2019	Analyst: SJC
Fluoranthene	0.98	0.039		mg/Kg-dry	1	8/29/2019
Fluorene	ND	0.039		mg/Kg-dry	1	8/29/2019
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2019
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	8/29/2019
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	8/29/2019
Hexachloroethane	ND	0.20		mg/Kg-dry	1	8/29/2019
Indeno(1,2,3-cd)pyrene	0.43	0.039		mg/Kg-dry	1	8/29/2019
Isophorone	ND	0.20		mg/Kg-dry	1	8/29/2019
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	8/29/2019
2-Methylphenol	ND	0.20		mg/Kg-dry	1	8/29/2019
4-Methylphenol	ND	0.20		mg/Kg-dry	1	8/29/2019
Naphthalene	ND	0.039		mg/Kg-dry	1	8/29/2019
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/29/2019
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/29/2019
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/29/2019
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	8/29/2019
4-Nitrophenol	ND	0.39		mg/Kg-dry	1	8/29/2019
Nitrobenzene	ND	0.039		mg/Kg-dry	1	8/29/2019
N-Nitrosodi-n-propylamine	ND	0.039		mg/Kg-dry	1	8/29/2019
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	8/29/2019
N-Nitrosodiphenylamine	ND	0.039		mg/Kg-dry	1	8/29/2019
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	8/29/2019
Pentachlorophenol	ND	0.039		mg/Kg-dry	1	8/29/2019
Phenanthrene	0.30	0.039		mg/Kg-dry	1	8/29/2019
Phenol	ND	0.20		mg/Kg-dry	1	8/29/2019
Pyrene	0.80	0.039		mg/Kg-dry	1	8/29/2019
Pyridine	ND	0.78		mg/Kg-dry	1	8/29/2019
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2019
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/29/2019
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/29/2019

Metals by ICP/MS	SW6020A (SW3050B)				Prep Date: 8/30/2019	Analyst: JG
Antimony	ND	2.1		mg/Kg-dry	10	9/3/2019
Arsenic	9.6	1.1		mg/Kg-dry	10	8/31/2019
Barium	130	1.1		mg/Kg-dry	10	8/31/2019
Beryllium	0.91	0.53		mg/Kg-dry	10	8/31/2019
Cadmium	0.54	0.53		mg/Kg-dry	10	8/31/2019
Calcium	27000	64		mg/Kg-dry	10	8/31/2019
Chromium	26	1.1		mg/Kg-dry	10	8/31/2019

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**ANALYTICAL RESULTS**

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Client Sample ID: 2171V2-20-01 (0-5)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 10:20:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-008

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>						
	<b>SW6020A (SW3050B)</b>		Prep Date: <b>8/30/2019</b>		Analyst: <b>JG</b>	
Cobalt	12	1.1		mg/Kg-dry	10	8/31/2019
Copper	38	2.6		mg/Kg-dry	10	8/31/2019
Iron	27000	32		mg/Kg-dry	10	8/31/2019
Lead	99	0.53		mg/Kg-dry	10	8/31/2019
Magnesium	15000	32		mg/Kg-dry	10	8/31/2019
Manganese	610	1.1		mg/Kg-dry	10	8/31/2019
Nickel	31	1.1		mg/Kg-dry	10	8/31/2019
Potassium	2000	32		mg/Kg-dry	10	8/31/2019
Selenium	1.4	1.1		mg/Kg-dry	10	8/31/2019
Silver	ND	1.1		mg/Kg-dry	10	8/31/2019
Sodium	2500	64		mg/Kg-dry	10	8/31/2019
Thallium	ND	1.1		mg/Kg-dry	10	8/31/2019
Vanadium	32	1.1		mg/Kg-dry	10	8/31/2019
Zinc	100	5.3		mg/Kg-dry	10	8/31/2019
<b>SPLP Metals by ICP/MS</b>						
	<b>SW1312/6020A (SW3005A)</b>		Prep Date: <b>8/29/2019</b>		Analyst: <b>MDT</b>	
Arsenic	0.0073	0.0040		mg/L	2	8/30/2019
Barium	0.061	0.020		mg/L	2	8/30/2019
Beryllium	ND	0.0020		mg/L	2	8/30/2019
Cadmium	ND	0.0020		mg/L	2	8/30/2019
Chromium	ND	0.016		mg/L	2	8/30/2019
Cobalt	ND	0.0040		mg/L	2	8/30/2019
Copper	ND	0.020		mg/L	2	8/30/2019
Iron	6.9	0.20		mg/L	2	8/30/2019
Lead	0.020	0.0020		mg/L	2	8/30/2019
Manganese	0.048	0.0040		mg/L	2	8/30/2019
Nickel	0.0099	0.0080		mg/L	2	8/30/2019
Selenium	ND	0.0040		mg/L	2	8/30/2019
Silver	ND	0.0040		mg/L	2	8/30/2019
Zinc	0.037	0.020		mg/L	2	8/30/2019
<b>TCLP Metals by ICP/MS</b>						
	<b>SW1311/6020A (SW3005A)</b>		Prep Date: <b>8/30/2019</b>		Analyst: <b>JG</b>	
Arsenic	ND	0.010		mg/L	5	8/31/2019
Barium	0.52	0.010		mg/L	5	8/31/2019
Beryllium	ND	0.0050		mg/L	5	9/3/2019
Cadmium	ND	0.0050		mg/L	5	8/31/2019
Chromium	ND	0.070		mg/L	5	8/31/2019
Cobalt	ND	0.010		mg/L	5	8/31/2019
Copper	ND	0.025		mg/L	5	8/31/2019

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Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 10:20:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-008

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020A (SW3005A)</b>		Prep Date: <b>8/30/2019</b>		Analyst: <b>JG</b>	
Iron	ND	0.50		mg/L	5	8/31/2019
Lead	ND	0.0075		mg/L	5	8/31/2019
Manganese	0.48	0.010		mg/L	5	8/31/2019
Nickel	ND	0.035		mg/L	5	8/31/2019
Selenium	ND	0.0050		mg/L	5	8/31/2019
Silver	ND	0.010		mg/L	5	8/31/2019
Zinc	ND	0.10		mg/L	5	8/31/2019
<b>TCLP Mercury</b>	<b>SW1311/7470A</b>		Prep Date: <b>8/30/2019</b>		Analyst: <b>LB</b>	
Mercury	ND	0.00020		mg/L	1	8/30/2019
<b>SPLP Mercury</b>	<b>SW1312/7470A</b>		Prep Date: <b>8/29/2019</b>		Analyst: <b>LB</b>	
Mercury	ND	0.00020		mg/L	1	8/30/2019
<b>Mercury</b>	<b>SW7471B</b>		Prep Date: <b>8/29/2019</b>		Analyst: <b>LB</b>	
Mercury	0.044	0.00022		mg/Kg-dry	1	8/29/2019
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: <b>8/28/2019</b>		Analyst: <b>EDB</b>	
pH	8.75			pH Units	1	8/28/2019
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: <b>9/3/2019</b>		Analyst: <b>RW</b>	
Percent Moisture	15.9	0.2	*	wt%	1	9/4/2019

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Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-20-01 (5-9)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 10:25:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-009

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Volatile Organic Compounds by GC/MS	SW5035/8260B		Prep Date: 8/27/2019		Analyst: CBG	
Acetone	ND	0.096		mg/Kg-dry	1	8/31/2019
Benzene	ND	0.0064		mg/Kg-dry	1	8/31/2019
Bromodichloromethane	ND	0.0064		mg/Kg-dry	1	8/31/2019
Bromoform	ND	0.0064		mg/Kg-dry	1	8/31/2019
Bromomethane	ND	0.013		mg/Kg-dry	1	8/31/2019
2-Butanone	ND	0.096		mg/Kg-dry	1	8/31/2019
Carbon disulfide	ND	0.064		mg/Kg-dry	1	8/31/2019
Carbon tetrachloride	ND	0.0064		mg/Kg-dry	1	8/31/2019
Chlorobenzene	ND	0.0064		mg/Kg-dry	1	8/31/2019
Chloroethane	ND	0.013		mg/Kg-dry	1	8/31/2019
Chloroform	ND	0.0064		mg/Kg-dry	1	8/31/2019
Chloromethane	ND	0.013		mg/Kg-dry	1	8/31/2019
Dibromochloromethane	ND	0.0064		mg/Kg-dry	1	8/31/2019
1,1-Dichloroethane	ND	0.0064		mg/Kg-dry	1	8/31/2019
1,2-Dichloroethane	ND	0.0064		mg/Kg-dry	1	8/31/2019
1,1-Dichloroethene	ND	0.0064		mg/Kg-dry	1	8/31/2019
cis-1,2-Dichloroethene	ND	0.0064		mg/Kg-dry	1	8/31/2019
trans-1,2-Dichloroethene	ND	0.0064		mg/Kg-dry	1	8/31/2019
1,2-Dichloropropane	ND	0.0064		mg/Kg-dry	1	8/31/2019
cis-1,3-Dichloropropene	ND	0.0026		mg/Kg-dry	1	8/31/2019
trans-1,3-Dichloropropene	ND	0.0026		mg/Kg-dry	1	8/31/2019
Ethylbenzene	ND	0.0064		mg/Kg-dry	1	8/31/2019
2-Hexanone	ND	0.026		mg/Kg-dry	1	8/31/2019
4-Methyl-2-pentanone	ND	0.026		mg/Kg-dry	1	8/31/2019
Methylene chloride	ND	0.013		mg/Kg-dry	1	8/31/2019
Methyl tert-butyl ether	ND	0.0064		mg/Kg-dry	1	8/31/2019
Styrene	ND	0.0064		mg/Kg-dry	1	8/31/2019
1,1,2,2-Tetrachloroethane	ND	0.0064		mg/Kg-dry	1	8/31/2019
Tetrachloroethene	ND	0.0064		mg/Kg-dry	1	8/31/2019
Toluene	ND	0.0064		mg/Kg-dry	1	8/31/2019
1,1,1-Trichloroethane	ND	0.0064		mg/Kg-dry	1	8/31/2019
1,1,2-Trichloroethane	ND	0.0064		mg/Kg-dry	1	8/31/2019
Trichloroethene	ND	0.0064		mg/Kg-dry	1	8/31/2019
Vinyl chloride	ND	0.0064		mg/Kg-dry	1	8/31/2019
Xylenes, Total	ND	0.020		mg/Kg-dry	1	8/31/2019

Semivolatile Organic Compounds by GC/MS	SW8270D (SW3550B)		Prep Date: 8/28/2019		Analyst: SJC	
Acenaphthene	ND	0.050		mg/Kg-dry	1	8/29/2019
Acenaphthylene	ND	0.050		mg/Kg-dry	1	8/29/2019

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Matrix: Soil

Lab ID: 19081187-009

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270D (SW3550B)</b>				Prep Date: 8/28/2019	Analyst: SJC
Aniline	ND	0.50		mg/Kg-dry	1	8/29/2019
Anthracene	ND	0.050		mg/Kg-dry	1	8/29/2019
Benz(a)anthracene	ND	0.050		mg/Kg-dry	1	8/29/2019
Benzidine	ND	0.50		mg/Kg-dry	1	8/29/2019
Benzo(a)pyrene	ND	0.050		mg/Kg-dry	1	8/29/2019
Benzo(b)fluoranthene	ND	0.050		mg/Kg-dry	1	8/29/2019
Benzo(g,h,i)perylene	ND	0.050		mg/Kg-dry	1	8/29/2019
Benzo(k)fluoranthene	ND	0.050		mg/Kg-dry	1	8/29/2019
Benzoic acid	ND	1.3		mg/Kg-dry	1	8/29/2019
Benzyl alcohol	ND	0.26		mg/Kg-dry	1	8/29/2019
Bis(2-chloroethoxy)methane	ND	0.26		mg/Kg-dry	1	8/29/2019
Bis(2-chloroethyl)ether	ND	0.26		mg/Kg-dry	1	8/29/2019
Bis(2-ethylhexyl)phthalate	ND	1.3		mg/Kg-dry	1	8/29/2019
4-Bromophenyl phenyl ether	ND	0.26		mg/Kg-dry	1	8/29/2019
Butyl benzyl phthalate	ND	0.26		mg/Kg-dry	1	8/29/2019
Carbazole	ND	0.26		mg/Kg-dry	1	8/29/2019
4-Chloroaniline	ND	0.26		mg/Kg-dry	1	8/29/2019
4-Chloro-3-methylphenol	ND	0.50		mg/Kg-dry	1	8/29/2019
2-Chloronaphthalene	ND	0.26		mg/Kg-dry	1	8/29/2019
2-Chlorophenol	ND	0.26		mg/Kg-dry	1	8/29/2019
4-Chlorophenyl phenyl ether	ND	0.26		mg/Kg-dry	1	8/29/2019
Chrysene	ND	0.050		mg/Kg-dry	1	8/29/2019
Dibenz(a,h)anthracene	ND	0.050		mg/Kg-dry	1	8/29/2019
Dibenzofuran	ND	0.26		mg/Kg-dry	1	8/29/2019
1,2-Dichlorobenzene	ND	0.26		mg/Kg-dry	1	8/29/2019
1,3-Dichlorobenzene	ND	0.26		mg/Kg-dry	1	8/29/2019
1,4-Dichlorobenzene	ND	0.26		mg/Kg-dry	1	8/29/2019
3,3'-Dichlorobenzidine	ND	0.26		mg/Kg-dry	1	8/29/2019
2,4-Dichlorophenol	ND	0.26		mg/Kg-dry	1	8/29/2019
Diethyl phthalate	ND	0.26		mg/Kg-dry	1	8/29/2019
2,4-Dimethylphenol	ND	0.26		mg/Kg-dry	1	8/29/2019
Dimethyl phthalate	ND	0.26		mg/Kg-dry	1	8/29/2019
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg-dry	1	8/29/2019
2,4-Dinitrophenol	ND	1.3		mg/Kg-dry	1	8/29/2019
2,4-Dinitrotoluene	ND	0.050		mg/Kg-dry	1	8/29/2019
2,6-Dinitrotoluene	ND	0.050		mg/Kg-dry	1	8/29/2019
Di-n-butyl phthalate	ND	0.26		mg/Kg-dry	1	8/29/2019
Di-n-octyl phthalate	ND	0.26		mg/Kg-dry	1	8/29/2019

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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-20-01 (5-9)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 10:25:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-009

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270D (SW3550B)				Prep Date: 8/28/2019	Analyst: SJC
Fluoranthene	ND	0.050		mg/Kg-dry	1	8/29/2019
Fluorene	ND	0.050		mg/Kg-dry	1	8/29/2019
Hexachlorobenzene	ND	0.26		mg/Kg-dry	1	8/29/2019
Hexachlorobutadiene	ND	0.26		mg/Kg-dry	1	8/29/2019
Hexachlorocyclopentadiene	ND	0.26		mg/Kg-dry	1	8/29/2019
Hexachloroethane	ND	0.26		mg/Kg-dry	1	8/29/2019
Indeno(1,2,3-cd)pyrene	ND	0.050		mg/Kg-dry	1	8/29/2019
Isophorone	ND	0.26		mg/Kg-dry	1	8/29/2019
2-Methylnaphthalene	ND	0.26		mg/Kg-dry	1	8/29/2019
2-Methylphenol	ND	0.26		mg/Kg-dry	1	8/29/2019
4-Methylphenol	ND	0.26		mg/Kg-dry	1	8/29/2019
Naphthalene	ND	0.050		mg/Kg-dry	1	8/29/2019
2-Nitroaniline	ND	0.26		mg/Kg-dry	1	8/29/2019
3-Nitroaniline	ND	0.26		mg/Kg-dry	1	8/29/2019
4-Nitroaniline	ND	0.26		mg/Kg-dry	1	8/29/2019
2-Nitrophenol	ND	0.26		mg/Kg-dry	1	8/29/2019
4-Nitrophenol	ND	0.50		mg/Kg-dry	1	8/29/2019
Nitrobenzene	ND	0.050		mg/Kg-dry	1	8/29/2019
N-Nitrosodi-n-propylamine	ND	0.050		mg/Kg-dry	1	8/29/2019
N-Nitrosodimethylamine	ND	0.26		mg/Kg-dry	1	8/29/2019
N-Nitrosodiphenylamine	ND	0.050		mg/Kg-dry	1	8/29/2019
2, 2'-oxybis(1-Chloropropane)	ND	0.26		mg/Kg-dry	1	8/29/2019
Pentachlorophenol	ND	0.050		mg/Kg-dry	1	8/29/2019
Phenanthrene	ND	0.050		mg/Kg-dry	1	8/29/2019
Phenol	ND	0.26		mg/Kg-dry	1	8/29/2019
Pyrene	ND	0.050		mg/Kg-dry	1	8/29/2019
Pyridine	ND	1.0		mg/Kg-dry	1	8/29/2019
1,2,4-Trichlorobenzene	ND	0.26		mg/Kg-dry	1	8/29/2019
2,4,5-Trichlorophenol	ND	0.26		mg/Kg-dry	1	8/29/2019
2,4,6-Trichlorophenol	ND	0.26		mg/Kg-dry	1	8/29/2019

Metals by ICP/MS	SW6020A (SW3050B)				Prep Date: 8/30/2019	Analyst: JG
Antimony	ND	2.7		mg/Kg-dry	10	9/3/2019
Arsenic	9.4	1.4		mg/Kg-dry	10	8/31/2019
Barium	130	1.4		mg/Kg-dry	10	8/31/2019
Beryllium	0.82	0.68		mg/Kg-dry	10	8/31/2019
Cadmium	ND	0.68		mg/Kg-dry	10	8/31/2019
Calcium	72000	81		mg/Kg-dry	10	8/31/2019
Chromium	22	1.4		mg/Kg-dry	10	8/31/2019

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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-20-01 (5-9)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 10:25:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-009

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020A (SW3050B)</b>		Prep Date: 8/30/2019		Analyst: JG
Cobalt	16	1.4		mg/Kg-dry	10	8/31/2019
Copper	44	3.4		mg/Kg-dry	10	8/31/2019
Iron	20000	41		mg/Kg-dry	10	8/31/2019
Lead	15	0.68		mg/Kg-dry	10	8/31/2019
Magnesium	11000	41		mg/Kg-dry	10	8/31/2019
Manganese	340	1.4		mg/Kg-dry	10	8/31/2019
Nickel	51	1.4		mg/Kg-dry	10	8/31/2019
Potassium	1400	41		mg/Kg-dry	10	8/31/2019
Selenium	5.8	1.4		mg/Kg-dry	10	8/31/2019
Silver	ND	1.4		mg/Kg-dry	10	8/31/2019
Sodium	830	81		mg/Kg-dry	10	8/31/2019
Thallium	ND	1.4		mg/Kg-dry	10	8/31/2019
Vanadium	30	1.4		mg/Kg-dry	10	8/31/2019
Zinc	99	6.8		mg/Kg-dry	10	8/31/2019
<b>SPLP Metals by ICP/MS</b>		<b>SW1312/6020A (SW3005A)</b>		Prep Date: 8/29/2019		Analyst: MDT
Arsenic	ND	0.0040		mg/L	2	8/30/2019
Barium	ND	0.020		mg/L	2	8/30/2019
Beryllium	ND	0.0020		mg/L	2	8/30/2019
Cadmium	ND	0.0020		mg/L	2	8/30/2019
Chromium	ND	0.016		mg/L	2	8/30/2019
Cobalt	ND	0.0040		mg/L	2	8/30/2019
Copper	ND	0.020		mg/L	2	8/30/2019
Iron	1.3	0.20		mg/L	2	8/30/2019
Lead	ND	0.0020		mg/L	2	8/30/2019
Manganese	0.0060	0.0040		mg/L	2	8/30/2019
Nickel	ND	0.0080		mg/L	2	8/30/2019
Selenium	0.0064	0.0040		mg/L	2	8/30/2019
Silver	ND	0.0040		mg/L	2	8/30/2019
Zinc	ND	0.020		mg/L	2	8/30/2019
<b>TCLP Metals by ICP/MS</b>		<b>SW1311/6020A (SW3005A)</b>		Prep Date: 8/30/2019		Analyst: JG
Arsenic	ND	0.010		mg/L	5	8/31/2019
Barium	0.90	0.010		mg/L	5	8/31/2019
Beryllium	ND	0.0050		mg/L	5	8/31/2019
Cadmium	ND	0.0050		mg/L	5	8/31/2019
Chromium	ND	0.070		mg/L	5	8/31/2019
Cobalt	ND	0.010		mg/L	5	8/31/2019
Copper	ND	0.025		mg/L	5	8/31/2019

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Client Sample ID: 2171V2-20-01 (5-9)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 10:25:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-009

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020A (SW3005A)</b>		Prep Date: <b>8/30/2019</b>		Analyst: <b>JG</b>	
Iron	ND	0.50		mg/L	5	8/31/2019
Lead	ND	0.0075		mg/L	5	8/31/2019
Manganese	2.3	0.010		mg/L	5	8/31/2019
Nickel	ND	0.035		mg/L	5	8/31/2019
Selenium	ND	0.0050		mg/L	5	8/31/2019
Silver	ND	0.010		mg/L	5	8/31/2019
Zinc	ND	0.10		mg/L	5	8/31/2019
<b>TCLP Mercury</b>	<b>SW1311/7470A</b>		Prep Date: <b>8/30/2019</b>		Analyst: <b>LB</b>	
Mercury	ND	0.00020		mg/L	1	8/30/2019
<b>SPLP Mercury</b>	<b>SW1312/7470A</b>		Prep Date: <b>8/29/2019</b>		Analyst: <b>LB</b>	
Mercury	ND	0.00020		mg/L	1	8/30/2019
<b>Mercury</b>	<b>SW7471B</b>		Prep Date: <b>8/29/2019</b>		Analyst: <b>LB</b>	
Mercury	0.038	0.00027		mg/Kg-dry	1	8/29/2019
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: <b>8/28/2019</b>		Analyst: <b>EDB</b>	
pH	7.76			pH Units	1	8/28/2019
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: <b>9/3/2019</b>		Analyst: <b>RW</b>	
Percent Moisture	34.3	0.2	*	wt%	1	9/4/2019

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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-25-01 (0-5)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 11:15:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-018

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: <b>8/27/2019</b>		Analyst: <b>CBG</b>
Acetone	ND	0.052		mg/Kg-dry	1	8/31/2019
Benzene	ND	0.0035		mg/Kg-dry	1	8/31/2019
Bromodichloromethane	ND	0.0035		mg/Kg-dry	1	8/31/2019
Bromoform	ND	0.0035		mg/Kg-dry	1	8/31/2019
Bromomethane	ND	0.0070		mg/Kg-dry	1	8/31/2019
2-Butanone	ND	0.052		mg/Kg-dry	1	8/31/2019
Carbon disulfide	ND	0.035		mg/Kg-dry	1	8/31/2019
Carbon tetrachloride	ND	0.0035		mg/Kg-dry	1	8/31/2019
Chlorobenzene	ND	0.0035		mg/Kg-dry	1	8/31/2019
Chloroethane	ND	0.0070		mg/Kg-dry	1	8/31/2019
Chloroform	ND	0.0035		mg/Kg-dry	1	8/31/2019
Chloromethane	ND	0.0070		mg/Kg-dry	1	8/31/2019
Dibromochloromethane	ND	0.0035		mg/Kg-dry	1	8/31/2019
1,1-Dichloroethane	ND	0.0035		mg/Kg-dry	1	8/31/2019
1,2-Dichloroethane	ND	0.0035		mg/Kg-dry	1	8/31/2019
1,1-Dichloroethene	ND	0.0035		mg/Kg-dry	1	8/31/2019
cis-1,2-Dichloroethene	ND	0.0035		mg/Kg-dry	1	8/31/2019
trans-1,2-Dichloroethene	ND	0.0035		mg/Kg-dry	1	8/31/2019
1,2-Dichloropropane	ND	0.0035		mg/Kg-dry	1	8/31/2019
cis-1,3-Dichloropropene	ND	0.0014		mg/Kg-dry	1	8/31/2019
trans-1,3-Dichloropropene	ND	0.0014		mg/Kg-dry	1	8/31/2019
Ethylbenzene	ND	0.0035		mg/Kg-dry	1	8/31/2019
2-Hexanone	ND	0.014		mg/Kg-dry	1	8/31/2019
4-Methyl-2-pentanone	ND	0.014		mg/Kg-dry	1	8/31/2019
Methylene chloride	ND	0.0070		mg/Kg-dry	1	8/31/2019
Methyl tert-butyl ether	ND	0.0035		mg/Kg-dry	1	8/31/2019
Styrene	ND	0.0035		mg/Kg-dry	1	8/31/2019
1,1,2,2-Tetrachloroethane	ND	0.0035		mg/Kg-dry	1	8/31/2019
Tetrachloroethene	ND	0.0035		mg/Kg-dry	1	8/31/2019
Toluene	ND	0.0035		mg/Kg-dry	1	8/31/2019
1,1,1-Trichloroethane	ND	0.0035		mg/Kg-dry	1	8/31/2019
1,1,2-Trichloroethane	ND	0.0035		mg/Kg-dry	1	8/31/2019
Trichloroethene	ND	0.0035		mg/Kg-dry	1	8/31/2019
Vinyl chloride	ND	0.0035		mg/Kg-dry	1	8/31/2019
Xylenes, Total	ND	0.010		mg/Kg-dry	1	8/31/2019
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270D (SW3550B)</b>		Prep Date: <b>8/28/2019</b>		Analyst: <b>SJC</b>
Acenaphthene	ND	0.037		mg/Kg-dry	1	8/29/2019
Acenaphthylene	ND	0.037		mg/Kg-dry	1	8/29/2019

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**ANALYTICAL RESULTS**

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Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 11:15:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-018

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270D (SW3550B)</b>		Prep Date: 8/28/2019		Analyst: SJC
Aniline	ND	0.37		mg/Kg-dry	1	8/29/2019
Anthracene	ND	0.037		mg/Kg-dry	1	8/29/2019
Benz(a)anthracene	0.083	0.037		mg/Kg-dry	1	8/29/2019
Benzidine	ND	0.37		mg/Kg-dry	1	8/29/2019
Benzo(a)pyrene	0.091	0.037		mg/Kg-dry	1	8/29/2019
Benzo(b)fluoranthene	0.097	0.037		mg/Kg-dry	1	8/29/2019
Benzo(g,h,i)perylene	0.063	0.037		mg/Kg-dry	1	8/29/2019
Benzo(k)fluoranthene	0.078	0.037		mg/Kg-dry	1	8/29/2019
Benzoic acid	ND	0.92		mg/Kg-dry	1	8/29/2019
Benzyl alcohol	ND	0.19		mg/Kg-dry	1	8/29/2019
Bis(2-chloroethoxy)methane	ND	0.19		mg/Kg-dry	1	8/29/2019
Bis(2-chloroethyl)ether	ND	0.19		mg/Kg-dry	1	8/29/2019
Bis(2-ethylhexyl)phthalate	ND	0.92		mg/Kg-dry	1	8/29/2019
4-Bromophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	8/29/2019
Butyl benzyl phthalate	ND	0.19		mg/Kg-dry	1	8/29/2019
Carbazole	ND	0.19		mg/Kg-dry	1	8/29/2019
4-Chloroaniline	ND	0.19		mg/Kg-dry	1	8/29/2019
4-Chloro-3-methylphenol	ND	0.37		mg/Kg-dry	1	8/29/2019
2-Chloronaphthalene	ND	0.19		mg/Kg-dry	1	8/29/2019
2-Chlorophenol	ND	0.19		mg/Kg-dry	1	8/29/2019
4-Chlorophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	8/29/2019
Chrysene	0.096	0.037		mg/Kg-dry	1	8/29/2019
Dibenz(a,h)anthracene	ND	0.037		mg/Kg-dry	1	8/29/2019
Dibenzofuran	ND	0.19		mg/Kg-dry	1	8/29/2019
1,2-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/29/2019
1,3-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/29/2019
1,4-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/29/2019
3,3'-Dichlorobenzidine	ND	0.19		mg/Kg-dry	1	8/29/2019
2,4-Dichlorophenol	ND	0.19		mg/Kg-dry	1	8/29/2019
Diethyl phthalate	ND	0.19		mg/Kg-dry	1	8/29/2019
2,4-Dimethylphenol	ND	0.19		mg/Kg-dry	1	8/29/2019
Dimethyl phthalate	ND	0.19		mg/Kg-dry	1	8/29/2019
4,6-Dinitro-2-methylphenol	ND	0.37		mg/Kg-dry	1	8/29/2019
2,4-Dinitrophenol	ND	0.92		mg/Kg-dry	1	8/29/2019
2,4-Dinitrotoluene	ND	0.037		mg/Kg-dry	1	8/29/2019
2,6-Dinitrotoluene	ND	0.037		mg/Kg-dry	1	8/29/2019
Di-n-butyl phthalate	ND	0.19		mg/Kg-dry	1	8/29/2019
Di-n-octyl phthalate	ND	0.19		mg/Kg-dry	1	8/29/2019

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Matrix: Soil

Lab ID: 19081187-018

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270D (SW3550B)				Prep Date: 8/28/2019	Analyst: SJC
Fluoranthene	0.15	0.037		mg/Kg-dry	1	8/29/2019
Fluorene	ND	0.037		mg/Kg-dry	1	8/29/2019
Hexachlorobenzene	ND	0.19		mg/Kg-dry	1	8/29/2019
Hexachlorobutadiene	ND	0.19		mg/Kg-dry	1	8/29/2019
Hexachlorocyclopentadiene	ND	0.19		mg/Kg-dry	1	8/29/2019
Hexachloroethane	ND	0.19		mg/Kg-dry	1	8/29/2019
Indeno(1,2,3-cd)pyrene	0.065	0.037		mg/Kg-dry	1	8/29/2019
Isophorone	ND	0.19		mg/Kg-dry	1	8/29/2019
2-Methylnaphthalene	ND	0.19		mg/Kg-dry	1	8/29/2019
2-Methylphenol	ND	0.19		mg/Kg-dry	1	8/29/2019
4-Methylphenol	ND	0.19		mg/Kg-dry	1	8/29/2019
Naphthalene	ND	0.037		mg/Kg-dry	1	8/29/2019
2-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/29/2019
3-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/29/2019
4-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/29/2019
2-Nitrophenol	ND	0.19		mg/Kg-dry	1	8/29/2019
4-Nitrophenol	ND	0.37		mg/Kg-dry	1	8/29/2019
Nitrobenzene	ND	0.037		mg/Kg-dry	1	8/29/2019
N-Nitrosodi-n-propylamine	ND	0.037		mg/Kg-dry	1	8/29/2019
N-Nitrosodimethylamine	ND	0.19		mg/Kg-dry	1	8/29/2019
N-Nitrosodiphenylamine	ND	0.037		mg/Kg-dry	1	8/29/2019
2, 2'-oxybis(1-Chloropropane)	ND	0.19		mg/Kg-dry	1	8/29/2019
Pentachlorophenol	ND	0.037		mg/Kg-dry	1	8/29/2019
Phenanthrene	0.052	0.037		mg/Kg-dry	1	8/29/2019
Phenol	ND	0.19		mg/Kg-dry	1	8/29/2019
Pyrene	0.12	0.037		mg/Kg-dry	1	8/29/2019
Pyridine	ND	0.74		mg/Kg-dry	1	8/29/2019
1,2,4-Trichlorobenzene	ND	0.19		mg/Kg-dry	1	8/29/2019
2,4,5-Trichlorophenol	ND	0.19		mg/Kg-dry	1	8/29/2019
2,4,6-Trichlorophenol	ND	0.19		mg/Kg-dry	1	8/29/2019

Metals by ICP/MS	SW6020A (SW3050B)				Prep Date: 8/30/2019	Analyst: JG
Antimony	ND	2.0		mg/Kg-dry	10	9/3/2019
Arsenic	8.7	1.0		mg/Kg-dry	10	8/31/2019
Barium	92	1.0		mg/Kg-dry	10	8/31/2019
Beryllium	0.80	0.50		mg/Kg-dry	10	8/31/2019
Cadmium	ND	0.50		mg/Kg-dry	10	8/31/2019
Calcium	35000	60		mg/Kg-dry	10	8/31/2019
Chromium	21	1.0		mg/Kg-dry	10	8/31/2019

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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-25-01 (0-5)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 11:15:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-018

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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**Metals by ICP/MS****SW6020A (SW3050B)**

Prep Date: 8/30/2019

Analyst: JG

Cobalt	12	1.0		mg/Kg-dry	10	8/31/2019
Copper	30	2.5		mg/Kg-dry	10	8/31/2019
Iron	24000	30		mg/Kg-dry	10	8/31/2019
Lead	47	0.50		mg/Kg-dry	10	8/31/2019
Magnesium	19000	30		mg/Kg-dry	10	8/31/2019
Manganese	550	1.0		mg/Kg-dry	10	8/31/2019
Nickel	30	1.0		mg/Kg-dry	10	8/31/2019
Potassium	2000	30		mg/Kg-dry	10	8/31/2019
Selenium	1.3	1.0		mg/Kg-dry	10	8/31/2019
Silver	ND	1.0		mg/Kg-dry	10	8/31/2019
Sodium	1500	60		mg/Kg-dry	10	8/31/2019
Thallium	ND	1.0		mg/Kg-dry	10	8/31/2019
Vanadium	26	1.0		mg/Kg-dry	10	8/31/2019
Zinc	76	5.0		mg/Kg-dry	10	8/31/2019

**SPLP Metals by ICP/MS****SW1312/6020A (SW3005A)**

Prep Date: 8/29/2019

Analyst: MDT

Arsenic	ND	0.0040		mg/L	2	8/30/2019
Barium	0.031	0.020		mg/L	2	8/30/2019
Beryllium	ND	0.0020		mg/L	2	8/30/2019
Cadmium	ND	0.0020		mg/L	2	8/30/2019
Chromium	ND	0.016		mg/L	2	8/30/2019
Cobalt	ND	0.0040		mg/L	2	8/30/2019
Copper	ND	0.020		mg/L	2	8/30/2019
Iron	5.9	0.20		mg/L	2	8/30/2019
Lead	0.0084	0.0020		mg/L	2	8/30/2019
Manganese	0.039	0.0040		mg/L	2	8/30/2019
Nickel	0.0088	0.0080		mg/L	2	8/30/2019
Selenium	ND	0.0040		mg/L	2	8/30/2019
Silver	ND	0.0040		mg/L	2	8/30/2019
Zinc	0.031	0.020		mg/L	2	8/30/2019

**TCLP Metals by ICP/MS****SW1311/6020A (SW3005A)**

Prep Date: 9/3/2019

Analyst: JG

Arsenic	ND	0.010		mg/L	5	9/3/2019
Barium	0.45	0.050		mg/L	5	9/3/2019
Beryllium	ND	0.0050		mg/L	5	9/3/2019
Cadmium	ND	0.0050		mg/L	5	9/3/2019
Chromium	ND	0.010		mg/L	5	9/3/2019
Cobalt	ND	0.010		mg/L	5	9/3/2019
Copper	ND	0.10		mg/L	5	9/3/2019

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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-25-01 (0-5)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 11:15:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-018

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020A (SW3005A)</b>		Prep Date: <b>9/3/2019</b>		Analyst: <b>JG</b>	
Iron	ND	0.25		mg/L	5	9/3/2019
Lead	ND	0.0050		mg/L	5	9/3/2019
Manganese	0.15	0.010		mg/L	5	9/3/2019
Nickel	ND	0.010		mg/L	5	9/3/2019
Selenium	ND	0.010		mg/L	5	9/3/2019
Silver	ND	0.010		mg/L	5	9/3/2019
Zinc	ND	0.050		mg/L	5	9/3/2019
<b>TCLP Mercury</b>	<b>SW1311/7470A</b>		Prep Date: <b>9/3/2019</b>		Analyst: <b>LB</b>	
Mercury	ND	0.00020		mg/L	1	9/3/2019
<b>SPLP Mercury</b>	<b>SW1312/7470A</b>		Prep Date: <b>8/29/2019</b>		Analyst: <b>LB</b>	
Mercury	ND	0.00020		mg/L	1	8/30/2019
<b>Mercury</b>	<b>SW7471B</b>		Prep Date: <b>8/29/2019</b>		Analyst: <b>LB</b>	
Mercury	0.036	0.00020		mg/Kg-dry	1	8/29/2019
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: <b>8/28/2019</b>		Analyst: <b>EDB</b>	
pH	8.73			pH Units	1	8/28/2019
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: <b>9/3/2019</b>		Analyst: <b>RW</b>	
Percent Moisture	11.3	0.2	*	wt%	1	9/4/2019

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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-25-01 (5-7)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 11:20:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-019

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: <b>8/27/2019</b>		Analyst: <b>CBG</b>
Acetone	ND	0.073		mg/Kg-dry	1	8/31/2019
Benzene	ND	0.0048		mg/Kg-dry	1	8/31/2019
Bromodichloromethane	ND	0.0048		mg/Kg-dry	1	8/31/2019
Bromoform	ND	0.0048		mg/Kg-dry	1	8/31/2019
Bromomethane	ND	0.0098		mg/Kg-dry	1	8/31/2019
2-Butanone	ND	0.073		mg/Kg-dry	1	8/31/2019
Carbon disulfide	ND	0.048		mg/Kg-dry	1	8/31/2019
Carbon tetrachloride	ND	0.0048		mg/Kg-dry	1	8/31/2019
Chlorobenzene	ND	0.0048		mg/Kg-dry	1	8/31/2019
Chloroethane	ND	0.0098		mg/Kg-dry	1	8/31/2019
Chloroform	ND	0.0048		mg/Kg-dry	1	8/31/2019
Chloromethane	ND	0.0098		mg/Kg-dry	1	8/31/2019
Dibromochloromethane	ND	0.0048		mg/Kg-dry	1	8/31/2019
1,1-Dichloroethane	ND	0.0048		mg/Kg-dry	1	8/31/2019
1,2-Dichloroethane	ND	0.0048		mg/Kg-dry	1	8/31/2019
1,1-Dichloroethene	ND	0.0048		mg/Kg-dry	1	8/31/2019
cis-1,2-Dichloroethene	ND	0.0048		mg/Kg-dry	1	8/31/2019
trans-1,2-Dichloroethene	ND	0.0048		mg/Kg-dry	1	8/31/2019
1,2-Dichloropropane	ND	0.0048		mg/Kg-dry	1	8/31/2019
cis-1,3-Dichloropropene	ND	0.0019		mg/Kg-dry	1	8/31/2019
trans-1,3-Dichloropropene	ND	0.0019		mg/Kg-dry	1	8/31/2019
Ethylbenzene	ND	0.0048		mg/Kg-dry	1	8/31/2019
2-Hexanone	ND	0.019		mg/Kg-dry	1	8/31/2019
4-Methyl-2-pentanone	ND	0.019		mg/Kg-dry	1	8/31/2019
Methylene chloride	ND	0.0098		mg/Kg-dry	1	8/31/2019
Methyl tert-butyl ether	ND	0.0048		mg/Kg-dry	1	8/31/2019
Styrene	ND	0.0048		mg/Kg-dry	1	8/31/2019
1,1,2,2-Tetrachloroethane	ND	0.0048		mg/Kg-dry	1	8/31/2019
Tetrachloroethene	ND	0.0048		mg/Kg-dry	1	8/31/2019
Toluene	ND	0.0048		mg/Kg-dry	1	8/31/2019
1,1,1-Trichloroethane	ND	0.0048		mg/Kg-dry	1	8/31/2019
1,1,2-Trichloroethane	ND	0.0048		mg/Kg-dry	1	8/31/2019
Trichloroethene	ND	0.0048		mg/Kg-dry	1	8/31/2019
Vinyl chloride	ND	0.0048		mg/Kg-dry	1	8/31/2019
Xylenes, Total	ND	0.015		mg/Kg-dry	1	8/31/2019
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270D (SW3550B)</b>		Prep Date: <b>8/28/2019</b>		Analyst: <b>DM</b>
Acenaphthene	ND	0.036		mg/Kg-dry	1	8/29/2019
Acenaphthylene	ND	0.036		mg/Kg-dry	1	8/29/2019

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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

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Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-25-01 (5-7)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 11:20:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-019

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270D (SW3550B)</b>					Prep Date: 8/28/2019 Analyst: DM
Aniline	ND	0.37		mg/Kg-dry	1	8/29/2019
Anthracene	ND	0.036		mg/Kg-dry	1	8/29/2019
Benz(a)anthracene	ND	0.036		mg/Kg-dry	1	8/29/2019
Benzidine	ND	0.36		mg/Kg-dry	1	8/29/2019
Benzo(a)pyrene	ND	0.036		mg/Kg-dry	1	8/29/2019
Benzo(b)fluoranthene	ND	0.036		mg/Kg-dry	1	8/29/2019
Benzo(g,h,i)perylene	ND	0.036		mg/Kg-dry	1	8/29/2019
Benzo(k)fluoranthene	ND	0.036		mg/Kg-dry	1	8/29/2019
Benzoic acid	ND	0.91		mg/Kg-dry	1	8/29/2019
Benzyl alcohol	ND	0.19		mg/Kg-dry	1	8/29/2019
Bis(2-chloroethoxy)methane	ND	0.19		mg/Kg-dry	1	8/29/2019
Bis(2-chloroethyl)ether	ND	0.19		mg/Kg-dry	1	8/29/2019
Bis(2-ethylhexyl)phthalate	ND	0.91		mg/Kg-dry	1	8/29/2019
4-Bromophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	8/29/2019
Butyl benzyl phthalate	ND	0.19		mg/Kg-dry	1	8/29/2019
Carbazole	ND	0.19		mg/Kg-dry	1	8/29/2019
4-Chloroaniline	ND	0.19		mg/Kg-dry	1	8/29/2019
4-Chloro-3-methylphenol	ND	0.36		mg/Kg-dry	1	8/29/2019
2-Chloronaphthalene	ND	0.19		mg/Kg-dry	1	8/29/2019
2-Chlorophenol	ND	0.19		mg/Kg-dry	1	8/29/2019
4-Chlorophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	8/29/2019
Chrysene	ND	0.036		mg/Kg-dry	1	8/29/2019
Dibenz(a,h)anthracene	ND	0.036		mg/Kg-dry	1	8/29/2019
Dibenzofuran	ND	0.19		mg/Kg-dry	1	8/29/2019
1,2-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/29/2019
1,3-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/29/2019
1,4-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/29/2019
3,3'-Dichlorobenzidine	ND	0.19		mg/Kg-dry	1	8/29/2019
2,4-Dichlorophenol	ND	0.19		mg/Kg-dry	1	8/29/2019
Diethyl phthalate	ND	0.19		mg/Kg-dry	1	8/29/2019
2,4-Dimethylphenol	ND	0.19		mg/Kg-dry	1	8/29/2019
Dimethyl phthalate	ND	0.19		mg/Kg-dry	1	8/29/2019
4,6-Dinitro-2-methylphenol	ND	0.36		mg/Kg-dry	1	8/29/2019
2,4-Dinitrophenol	ND	0.91		mg/Kg-dry	1	8/29/2019
2,4-Dinitrotoluene	ND	0.036		mg/Kg-dry	1	8/29/2019
2,6-Dinitrotoluene	ND	0.036		mg/Kg-dry	1	8/29/2019
Di-n-butyl phthalate	ND	0.19		mg/Kg-dry	1	8/29/2019
Di-n-octyl phthalate	ND	0.19		mg/Kg-dry	1	8/29/2019

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Matrix: Soil

Lab ID: 19081187-019

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270D (SW3550B)				Prep Date: 8/28/2019	Analyst: DM
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Fluoranthene	ND	0.036		mg/Kg-dry	1	8/29/2019
Fluorene	ND	0.036		mg/Kg-dry	1	8/29/2019
Hexachlorobenzene	ND	0.19		mg/Kg-dry	1	8/29/2019
Hexachlorobutadiene	ND	0.19		mg/Kg-dry	1	8/29/2019
Hexachlorocyclopentadiene	ND	0.19		mg/Kg-dry	1	8/29/2019
Hexachloroethane	ND	0.19		mg/Kg-dry	1	8/29/2019
Indeno(1,2,3-cd)pyrene	ND	0.036		mg/Kg-dry	1	8/29/2019
Isophorone	ND	0.19		mg/Kg-dry	1	8/29/2019
2-Methylnaphthalene	ND	0.19		mg/Kg-dry	1	8/29/2019
2-Methylphenol	ND	0.19		mg/Kg-dry	1	8/29/2019
4-Methylphenol	ND	0.19		mg/Kg-dry	1	8/29/2019
Naphthalene	ND	0.036		mg/Kg-dry	1	8/29/2019
2-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/29/2019
3-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/29/2019
4-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/29/2019
2-Nitrophenol	ND	0.19		mg/Kg-dry	1	8/29/2019
4-Nitrophenol	ND	0.36		mg/Kg-dry	1	8/29/2019
Nitrobenzene	ND	0.036		mg/Kg-dry	1	8/29/2019
N-Nitrosodi-n-propylamine	ND	0.036		mg/Kg-dry	1	8/29/2019
N-Nitrosodimethylamine	ND	0.19		mg/Kg-dry	1	8/29/2019
N-Nitrosodiphenylamine	ND	0.036		mg/Kg-dry	1	8/29/2019
2, 2'-oxybis(1-Chloropropane)	ND	0.19		mg/Kg-dry	1	8/29/2019
Pentachlorophenol	ND	0.036		mg/Kg-dry	1	8/29/2019
Phenanthrene	ND	0.036		mg/Kg-dry	1	8/29/2019
Phenol	ND	0.19		mg/Kg-dry	1	8/29/2019
Pyrene	ND	0.036		mg/Kg-dry	1	8/29/2019
Pyridine	ND	0.74		mg/Kg-dry	1	8/29/2019
1,2,4-Trichlorobenzene	ND	0.19		mg/Kg-dry	1	8/29/2019
2,4,5-Trichlorophenol	ND	0.19		mg/Kg-dry	1	8/29/2019
2,4,6-Trichlorophenol	ND	0.19		mg/Kg-dry	1	8/29/2019

Metals by ICP/MS	SW6020A (SW3050B)				Prep Date: 8/30/2019	Analyst: JG
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Antimony	ND	1.9		mg/Kg-dry	10	9/3/2019
Arsenic	9.2	0.96		mg/Kg-dry	10	8/31/2019
Barium	39	0.96		mg/Kg-dry	10	8/31/2019
Beryllium	0.53	0.48		mg/Kg-dry	10	8/31/2019
Cadmium	ND	0.48		mg/Kg-dry	10	8/31/2019
Calcium	74000	57		mg/Kg-dry	10	8/31/2019
Chromium	17	0.96		mg/Kg-dry	10	8/31/2019

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**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-25-01 (5-7)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 11:20:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-019

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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**Metals by ICP/MS****SW6020A (SW3050B)**

Prep Date: 8/30/2019

Analyst: JG

Cobalt	12	0.96		mg/Kg-dry	10	8/31/2019
Copper	29	2.4		mg/Kg-dry	10	8/31/2019
Iron	22000	29		mg/Kg-dry	10	8/31/2019
Lead	16	0.48		mg/Kg-dry	10	8/31/2019
Magnesium	37000	29		mg/Kg-dry	10	8/31/2019
Manganese	580	0.96		mg/Kg-dry	10	8/31/2019
Nickel	31	0.96		mg/Kg-dry	10	8/31/2019
Potassium	1600	29		mg/Kg-dry	10	8/31/2019
Selenium	ND	0.96		mg/Kg-dry	10	8/31/2019
Silver	ND	0.96		mg/Kg-dry	10	8/31/2019
Sodium	680	57		mg/Kg-dry	10	8/31/2019
Thallium	ND	0.96		mg/Kg-dry	10	8/31/2019
Vanadium	18	0.96		mg/Kg-dry	10	8/31/2019
Zinc	55	4.8		mg/Kg-dry	10	8/31/2019

**SPLP Metals by ICP/MS****SW1312/6020A (SW3005A)**

Prep Date: 8/29/2019

Analyst: MDT

Arsenic	0.0044	0.0040		mg/L	2	8/30/2019
Barium	0.032	0.020		mg/L	2	8/30/2019
Beryllium	ND	0.0020		mg/L	2	8/30/2019
Cadmium	ND	0.0020		mg/L	2	8/30/2019
Chromium	ND	0.016		mg/L	2	8/30/2019
Cobalt	ND	0.0040		mg/L	2	8/30/2019
Copper	ND	0.020		mg/L	2	8/30/2019
Iron	6.6	0.20		mg/L	2	8/30/2019
Lead	0.0054	0.0020		mg/L	2	8/30/2019
Manganese	0.058	0.0040		mg/L	2	8/30/2019
Nickel	0.010	0.0080		mg/L	2	8/30/2019
Selenium	ND	0.0040		mg/L	2	8/30/2019
Silver	ND	0.0040		mg/L	2	8/30/2019
Zinc	0.034	0.020		mg/L	2	8/30/2019

**TCLP Metals by ICP/MS****SW1311/6020A (SW3005A)**

Prep Date: 9/3/2019

Analyst: JG

Arsenic	ND	0.010		mg/L	5	9/3/2019
Barium	0.57	0.050		mg/L	5	9/3/2019
Beryllium	ND	0.0050		mg/L	5	9/3/2019
Cadmium	ND	0.0050		mg/L	5	9/3/2019
Chromium	ND	0.010		mg/L	5	9/3/2019
Cobalt	0.028	0.010		mg/L	5	9/3/2019
Copper	ND	0.10		mg/L	5	9/3/2019

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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-25-01 (5-7)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 11:20:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-019

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020A (SW3005A)</b>		Prep Date: <b>9/3/2019</b>		Analyst: <b>JG</b>	
Iron	ND	0.25		mg/L	5	9/3/2019
Lead	ND	0.0050		mg/L	5	9/3/2019
Manganese	2.3	0.010		mg/L	5	9/3/2019
Nickel	0.053	0.010		mg/L	5	9/3/2019
Selenium	ND	0.010		mg/L	5	9/3/2019
Silver	ND	0.010		mg/L	5	9/3/2019
Zinc	ND	0.050		mg/L	5	9/3/2019
<b>TCLP Mercury</b>	<b>SW1311/7470A</b>		Prep Date: <b>9/3/2019</b>		Analyst: <b>LB</b>	
Mercury	ND	0.00020		mg/L	1	9/3/2019
<b>SPLP Mercury</b>	<b>SW1312/7470A</b>		Prep Date: <b>8/29/2019</b>		Analyst: <b>LB</b>	
Mercury	ND	0.00020		mg/L	1	8/30/2019
<b>Mercury</b>	<b>SW7471B</b>		Prep Date: <b>8/29/2019</b>		Analyst: <b>LB</b>	
Mercury	0.016	0.00021		mg/Kg-dry	1	8/29/2019
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: <b>8/28/2019</b>		Analyst: <b>EDB</b>	
pH	8.62			pH Units	1	8/28/2019
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: <b>9/3/2019</b>		Analyst: <b>RW</b>	
Percent Moisture	10.8	0.2	*	wt%	1	9/4/2019

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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-40-01 (0-4)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 9:36:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: <b>8/27/2019</b>		Analyst: <b>CBG</b>
Acetone	ND	0.068		mg/Kg-dry	1	9/1/2019
Benzene	ND	0.0046		mg/Kg-dry	1	9/1/2019
Bromodichloromethane	ND	0.0046		mg/Kg-dry	1	9/1/2019
Bromoform	ND	0.0046		mg/Kg-dry	1	9/1/2019
Bromomethane	ND	0.0092		mg/Kg-dry	1	9/1/2019
2-Butanone	ND	0.068		mg/Kg-dry	1	9/1/2019
Carbon disulfide	ND	0.046		mg/Kg-dry	1	9/1/2019
Carbon tetrachloride	ND	0.0046		mg/Kg-dry	1	9/1/2019
Chlorobenzene	ND	0.0046		mg/Kg-dry	1	9/1/2019
Chloroethane	ND	0.0092		mg/Kg-dry	1	9/1/2019
Chloroform	ND	0.0046		mg/Kg-dry	1	9/1/2019
Chloromethane	ND	0.0092		mg/Kg-dry	1	9/1/2019
Dibromochloromethane	ND	0.0046		mg/Kg-dry	1	9/1/2019
1,1-Dichloroethane	ND	0.0046		mg/Kg-dry	1	9/1/2019
1,2-Dichloroethane	ND	0.0046		mg/Kg-dry	1	9/1/2019
1,1-Dichloroethene	ND	0.0046		mg/Kg-dry	1	9/1/2019
cis-1,2-Dichloroethene	ND	0.0046		mg/Kg-dry	1	9/1/2019
trans-1,2-Dichloroethene	ND	0.0046		mg/Kg-dry	1	9/1/2019
1,2-Dichloropropane	ND	0.0046		mg/Kg-dry	1	9/1/2019
cis-1,3-Dichloropropene	ND	0.0019		mg/Kg-dry	1	9/1/2019
trans-1,3-Dichloropropene	ND	0.0019		mg/Kg-dry	1	9/1/2019
Ethylbenzene	ND	0.0046		mg/Kg-dry	1	9/1/2019
2-Hexanone	ND	0.019		mg/Kg-dry	1	9/1/2019
4-Methyl-2-pentanone	ND	0.019		mg/Kg-dry	1	9/1/2019
Methylene chloride	ND	0.0092		mg/Kg-dry	1	9/1/2019
Methyl tert-butyl ether	ND	0.0046		mg/Kg-dry	1	9/1/2019
Styrene	ND	0.0046		mg/Kg-dry	1	9/1/2019
1,1,2,2-Tetrachloroethane	ND	0.0046		mg/Kg-dry	1	9/1/2019
Tetrachloroethene	ND	0.0046		mg/Kg-dry	1	9/1/2019
Toluene	ND	0.0046		mg/Kg-dry	1	9/1/2019
1,1,1-Trichloroethane	ND	0.0046		mg/Kg-dry	1	9/1/2019
1,1,2-Trichloroethane	ND	0.0046		mg/Kg-dry	1	9/1/2019
Trichloroethene	ND	0.0046		mg/Kg-dry	1	9/1/2019
Vinyl chloride	ND	0.0046		mg/Kg-dry	1	9/1/2019
Xylenes, Total	ND	0.014		mg/Kg-dry	1	9/1/2019
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270D (SW3550B)</b>		Prep Date: <b>8/28/2019</b>		Analyst: <b>SJC</b>
Acenaphthene	ND	0.039		mg/Kg-dry	1	8/29/2019
Acenaphthylene	ND	0.039		mg/Kg-dry	1	8/29/2019

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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-40-01 (0-4)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 9:36:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270D (SW3550B)</b>		Prep Date: 8/28/2019		Analyst: SJC
Aniline	ND	0.39		mg/Kg-dry	1	8/29/2019
Anthracene	ND	0.039		mg/Kg-dry	1	8/29/2019
Benz(a)anthracene	0.050	0.039		mg/Kg-dry	1	8/29/2019
Benzidine	ND	0.39		mg/Kg-dry	1	8/29/2019
Benzo(a)pyrene	0.046	0.039		mg/Kg-dry	1	8/29/2019
Benzo(b)fluoranthene	0.046	0.039		mg/Kg-dry	1	8/29/2019
Benzo(g,h,i)perylene	ND	0.039		mg/Kg-dry	1	8/29/2019
Benzo(k)fluoranthene	ND	0.039		mg/Kg-dry	1	8/29/2019
Benzoic acid	ND	0.97		mg/Kg-dry	1	8/29/2019
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	8/29/2019
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	8/29/2019
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	8/29/2019
Bis(2-ethylhexyl)phthalate	ND	0.97		mg/Kg-dry	1	8/29/2019
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/29/2019
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2019
Carbazole	ND	0.20		mg/Kg-dry	1	8/29/2019
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	8/29/2019
4-Chloro-3-methylphenol	ND	0.39		mg/Kg-dry	1	8/29/2019
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	8/29/2019
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	8/29/2019
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/29/2019
Chrysene	0.065	0.039		mg/Kg-dry	1	8/29/2019
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	8/29/2019
Dibenzofuran	ND	0.20		mg/Kg-dry	1	8/29/2019
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2019
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2019
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2019
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	8/29/2019
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	8/29/2019
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2019
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	8/29/2019
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2019
4,6-Dinitro-2-methylphenol	ND	0.39		mg/Kg-dry	1	8/29/2019
2,4-Dinitrophenol	ND	0.97		mg/Kg-dry	1	8/29/2019
2,4-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	8/29/2019
2,6-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	8/29/2019
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2019
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2019

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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

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Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-40-01 (0-4)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 9:36:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>						
	<b>SW8270D (SW3550B)</b>				Prep Date: 8/28/2019	Analyst: SJC
Fluoranthene	0.062	0.039		mg/Kg-dry	1	8/29/2019
Fluorene	ND	0.039		mg/Kg-dry	1	8/29/2019
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2019
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	8/29/2019
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	8/29/2019
Hexachloroethane	ND	0.20		mg/Kg-dry	1	8/29/2019
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	1	8/29/2019
Isophorone	ND	0.20		mg/Kg-dry	1	8/29/2019
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	8/29/2019
2-Methylphenol	ND	0.20		mg/Kg-dry	1	8/29/2019
4-Methylphenol	ND	0.20		mg/Kg-dry	1	8/29/2019
Naphthalene	ND	0.039		mg/Kg-dry	1	8/29/2019
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/29/2019
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/29/2019
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/29/2019
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	8/29/2019
4-Nitrophenol	ND	0.39		mg/Kg-dry	1	8/29/2019
Nitrobenzene	ND	0.039		mg/Kg-dry	1	8/29/2019
N-Nitrosodi-n-propylamine	ND	0.039		mg/Kg-dry	1	8/29/2019
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	8/29/2019
N-Nitrosodiphenylamine	ND	0.039		mg/Kg-dry	1	8/29/2019
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	8/29/2019
Pentachlorophenol	ND	0.039		mg/Kg-dry	1	8/29/2019
Phenanthrene	0.095	0.039		mg/Kg-dry	1	8/29/2019
Phenol	ND	0.20		mg/Kg-dry	1	8/29/2019
Pyrene	0.068	0.039		mg/Kg-dry	1	8/29/2019
Pyridine	ND	0.79		mg/Kg-dry	1	8/29/2019
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2019
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/29/2019
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/29/2019
<b>Metals by ICP/MS</b>						
	<b>SW6020A (SW3050B)</b>				Prep Date: 8/30/2019	Analyst: JG
Antimony	ND	2.0		mg/Kg-dry	10	9/3/2019
Arsenic	12	1.0		mg/Kg-dry	10	8/31/2019
Barium	63	1.0		mg/Kg-dry	10	8/31/2019
Beryllium	0.73	0.51		mg/Kg-dry	10	8/31/2019
Cadmium	ND	0.51		mg/Kg-dry	10	8/31/2019
Calcium	60000	61		mg/Kg-dry	10	8/31/2019
Chromium	20	1.0		mg/Kg-dry	10	8/31/2019

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

**Qualifiers:**

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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-40-01 (0-4)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 9:36:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020A (SW3050B)</b>		Prep Date: 8/30/2019		Analyst: JG
Cobalt	14	1.0		mg/Kg-dry	10	8/31/2019
Copper	33	2.6		mg/Kg-dry	10	8/31/2019
Iron	26000	31		mg/Kg-dry	10	8/31/2019
Lead	63	0.51		mg/Kg-dry	10	8/31/2019
Magnesium	31000	31		mg/Kg-dry	10	8/31/2019
Manganese	620	1.0		mg/Kg-dry	10	8/31/2019
Nickel	32	1.0		mg/Kg-dry	10	8/31/2019
Potassium	1800	31		mg/Kg-dry	10	8/31/2019
Selenium	ND	1.0		mg/Kg-dry	10	8/31/2019
Silver	ND	1.0		mg/Kg-dry	10	8/31/2019
Sodium	2000	61		mg/Kg-dry	10	8/31/2019
Thallium	ND	1.0		mg/Kg-dry	10	8/31/2019
Vanadium	25	1.0		mg/Kg-dry	10	8/31/2019
Zinc	67	5.1		mg/Kg-dry	10	8/31/2019
<b>SPLP Metals by ICP/MS</b>		<b>SW1312/6020A (SW3005A)</b>		Prep Date: 8/29/2019		Analyst: MDT
Arsenic	ND	0.0040		mg/L	2	8/30/2019
Barium	0.037	0.020		mg/L	2	8/30/2019
Beryllium	ND	0.0020		mg/L	2	8/30/2019
Cadmium	ND	0.0020		mg/L	2	8/30/2019
Chromium	ND	0.016		mg/L	2	8/30/2019
Cobalt	ND	0.0040		mg/L	2	8/30/2019
Copper	ND	0.020		mg/L	2	8/30/2019
Iron	2.5	0.20		mg/L	2	8/30/2019
Lead	0.012	0.0020		mg/L	2	8/30/2019
Manganese	0.037	0.0040		mg/L	2	8/30/2019
Nickel	ND	0.0080		mg/L	2	8/30/2019
Selenium	ND	0.0040		mg/L	2	8/30/2019
Silver	ND	0.0040		mg/L	2	8/30/2019
Zinc	ND	0.020		mg/L	2	8/30/2019
<b>TCLP Metals by ICP/MS</b>		<b>SW1311/6020A (SW3005A)</b>		Prep Date: 8/30/2019		Analyst: JG
Arsenic	ND	0.010		mg/L	5	8/31/2019
Barium	0.44	0.010		mg/L	5	8/31/2019
Beryllium	ND	0.0050		mg/L	5	8/31/2019
Cadmium	ND	0.0050		mg/L	5	8/31/2019
Chromium	ND	0.070		mg/L	5	8/31/2019
Cobalt	ND	0.010		mg/L	5	8/31/2019
Copper	ND	0.025		mg/L	5	8/31/2019

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff & Huff, Inc.  
 Work Order: 19081187 Revision 0  
 Project: 81.0220509.59, IDOT, Palatine, IL  
 Lab ID: 19081187-002

Client Sample ID: 2171V2-40-01 (0-4)  
 Collection Date: 8/23/2019 9:36:00 AM  
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020A (SW3005A)</b>		Prep Date: <b>8/30/2019</b>		Analyst: <b>JG</b>	
Iron	ND	0.50		mg/L	5	8/31/2019
Lead	ND	0.0075		mg/L	5	8/31/2019
Manganese	0.87	0.010		mg/L	5	8/31/2019
Nickel	ND	0.035		mg/L	5	8/31/2019
Selenium	ND	0.0050		mg/L	5	8/31/2019
Silver	ND	0.010		mg/L	5	8/31/2019
Zinc	ND	0.10		mg/L	5	8/31/2019
<b>TCLP Mercury</b>	<b>SW1311/7470A</b>		Prep Date: <b>8/30/2019</b>		Analyst: <b>LB</b>	
Mercury	ND	0.00020		mg/L	1	8/30/2019
<b>SPLP Mercury</b>	<b>SW1312/7470A</b>		Prep Date: <b>8/29/2019</b>		Analyst: <b>LB</b>	
Mercury	ND	0.00020		mg/L	1	8/30/2019
<b>Mercury</b>	<b>SW7471B</b>		Prep Date: <b>8/29/2019</b>		Analyst: <b>LB</b>	
Mercury	0.10	0.021		mg/Kg-dry	1	8/29/2019
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: <b>8/28/2019</b>		Analyst: <b>EDB</b>	
pH	8.54			pH Units	1	8/28/2019
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: <b>9/3/2019</b>		Analyst: <b>RW</b>	
Percent Moisture	14.8	0.2	*	wt%	1	9/4/2019

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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-DUP-2

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 12:00:00 PM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-021

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: 8/27/2019		Analyst: CBG
Acetone	0.28	0.11		mg/Kg-dry	1	9/2/2019
Benzene	ND	0.0076		mg/Kg-dry	1	9/2/2019
Bromodichloromethane	ND	0.0076		mg/Kg-dry	1	9/2/2019
Bromoform	ND	0.0076		mg/Kg-dry	1	9/2/2019
Bromomethane	ND	0.016		mg/Kg-dry	1	9/2/2019
2-Butanone	ND	0.11		mg/Kg-dry	1	9/2/2019
Carbon disulfide	ND	0.076		mg/Kg-dry	1	9/2/2019
Carbon tetrachloride	ND	0.0076		mg/Kg-dry	1	9/2/2019
Chlorobenzene	ND	0.0076		mg/Kg-dry	1	9/2/2019
Chloroethane	ND	0.016		mg/Kg-dry	1	9/2/2019
Chloroform	ND	0.0076		mg/Kg-dry	1	9/2/2019
Chloromethane	ND	0.016		mg/Kg-dry	1	9/2/2019
Dibromochloromethane	ND	0.0076		mg/Kg-dry	1	9/2/2019
1,1-Dichloroethane	ND	0.0076		mg/Kg-dry	1	9/2/2019
1,2-Dichloroethane	ND	0.0076		mg/Kg-dry	1	9/2/2019
1,1-Dichloroethene	ND	0.0076		mg/Kg-dry	1	9/2/2019
cis-1,2-Dichloroethene	ND	0.0076		mg/Kg-dry	1	9/2/2019
trans-1,2-Dichloroethene	ND	0.0076		mg/Kg-dry	1	9/2/2019
1,2-Dichloropropane	ND	0.0076		mg/Kg-dry	1	9/2/2019
cis-1,3-Dichloropropene	ND	0.0030		mg/Kg-dry	1	9/2/2019
trans-1,3-Dichloropropene	ND	0.0030		mg/Kg-dry	1	9/2/2019
Ethylbenzene	ND	0.0076		mg/Kg-dry	1	9/2/2019
2-Hexanone	ND	0.030		mg/Kg-dry	1	9/2/2019
4-Methyl-2-pentanone	ND	0.030		mg/Kg-dry	1	9/2/2019
Methylene chloride	ND	0.016		mg/Kg-dry	1	9/2/2019
Methyl tert-butyl ether	ND	0.0076		mg/Kg-dry	1	9/2/2019
Styrene	ND	0.0076		mg/Kg-dry	1	9/2/2019
1,1,2,2-Tetrachloroethane	ND	0.0076		mg/Kg-dry	1	9/2/2019
Tetrachloroethene	ND	0.0076		mg/Kg-dry	1	9/2/2019
Toluene	ND	0.0076		mg/Kg-dry	1	9/2/2019
1,1,1-Trichloroethane	ND	0.0076		mg/Kg-dry	1	9/2/2019
1,1,2-Trichloroethane	ND	0.0076		mg/Kg-dry	1	9/2/2019
Trichloroethene	ND	0.0076		mg/Kg-dry	1	9/2/2019
Vinyl chloride	ND	0.0076		mg/Kg-dry	1	9/2/2019
Xylenes, Total	ND	0.023		mg/Kg-dry	1	9/2/2019
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270D (SW3550B)</b>		Prep Date: 8/29/2019		Analyst: DM
Acenaphthene	ND	0.047		mg/Kg-dry	1	8/29/2019
Acenaphthylene	ND	0.047		mg/Kg-dry	1	8/29/2019

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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-DUP-2

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 12:00:00 PM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-021

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270D (SW3550B)</b>					Prep Date: 8/29/2019 Analyst: DM
Aniline	ND	0.47		mg/Kg-dry	1	8/29/2019
Anthracene	0.048	0.047		mg/Kg-dry	1	8/29/2019
Benz(a)anthracene	0.34	0.047		mg/Kg-dry	1	8/29/2019
Benzidine	ND	0.47		mg/Kg-dry	1	8/29/2019
Benzo(a)pyrene	0.36	0.047		mg/Kg-dry	1	8/29/2019
Benzo(b)fluoranthene	0.41	0.047		mg/Kg-dry	1	8/29/2019
Benzo(g,h,i)perylene	0.30	0.047		mg/Kg-dry	1	8/29/2019
Benzo(k)fluoranthene	0.34	0.047		mg/Kg-dry	1	8/29/2019
Benzoic acid	ND	1.2		mg/Kg-dry	1	8/29/2019
Benzyl alcohol	ND	0.24		mg/Kg-dry	1	8/29/2019
Bis(2-chloroethoxy)methane	ND	0.24		mg/Kg-dry	1	8/29/2019
Bis(2-chloroethyl)ether	ND	0.24		mg/Kg-dry	1	8/29/2019
Bis(2-ethylhexyl)phthalate	ND	1.2		mg/Kg-dry	1	8/29/2019
4-Bromophenyl phenyl ether	ND	0.24		mg/Kg-dry	1	8/29/2019
Butyl benzyl phthalate	ND	0.24		mg/Kg-dry	1	8/29/2019
Carbazole	ND	0.24		mg/Kg-dry	1	8/29/2019
4-Chloroaniline	ND	0.24		mg/Kg-dry	1	8/29/2019
4-Chloro-3-methylphenol	ND	0.47		mg/Kg-dry	1	8/29/2019
2-Chloronaphthalene	ND	0.24		mg/Kg-dry	1	8/29/2019
2-Chlorophenol	ND	0.24		mg/Kg-dry	1	8/29/2019
4-Chlorophenyl phenyl ether	ND	0.24		mg/Kg-dry	1	8/29/2019
Chrysene	0.43	0.047		mg/Kg-dry	1	8/29/2019
Dibenz(a,h)anthracene	0.13	0.047		mg/Kg-dry	1	8/29/2019
Dibenzofuran	ND	0.24		mg/Kg-dry	1	8/29/2019
1,2-Dichlorobenzene	ND	0.24		mg/Kg-dry	1	8/29/2019
1,3-Dichlorobenzene	ND	0.24		mg/Kg-dry	1	8/29/2019
1,4-Dichlorobenzene	ND	0.24		mg/Kg-dry	1	8/29/2019
3,3'-Dichlorobenzidine	ND	0.24		mg/Kg-dry	1	8/29/2019
2,4-Dichlorophenol	ND	0.24		mg/Kg-dry	1	8/29/2019
Diethyl phthalate	ND	0.24		mg/Kg-dry	1	8/29/2019
2,4-Dimethylphenol	ND	0.24		mg/Kg-dry	1	8/29/2019
Dimethyl phthalate	ND	0.24		mg/Kg-dry	1	8/29/2019
4,6-Dinitro-2-methylphenol	ND	0.47		mg/Kg-dry	1	8/29/2019
2,4-Dinitrophenol	ND	1.2		mg/Kg-dry	1	8/29/2019
2,4-Dinitrotoluene	ND	0.047		mg/Kg-dry	1	8/29/2019
2,6-Dinitrotoluene	ND	0.047		mg/Kg-dry	1	8/29/2019
Di-n-butyl phthalate	ND	0.24		mg/Kg-dry	1	8/29/2019
Di-n-octyl phthalate	ND	0.24		mg/Kg-dry	1	8/29/2019

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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-DUP-2

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 12:00:00 PM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-021

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270D (SW3550B)				Prep Date: 8/29/2019	Analyst: DM
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Fluoranthene	0.75	0.047		mg/Kg-dry	1	8/29/2019
Fluorene	ND	0.047		mg/Kg-dry	1	8/29/2019
Hexachlorobenzene	ND	0.24		mg/Kg-dry	1	8/29/2019
Hexachlorobutadiene	ND	0.24		mg/Kg-dry	1	8/29/2019
Hexachlorocyclopentadiene	ND	0.24		mg/Kg-dry	1	8/29/2019
Hexachloroethane	ND	0.24		mg/Kg-dry	1	8/29/2019
Indeno(1,2,3-cd)pyrene	0.27	0.047		mg/Kg-dry	1	8/29/2019
Isophorone	ND	0.24		mg/Kg-dry	1	8/29/2019
2-Methylnaphthalene	ND	0.24		mg/Kg-dry	1	8/29/2019
2-Methylphenol	ND	0.24		mg/Kg-dry	1	8/29/2019
4-Methylphenol	ND	0.24		mg/Kg-dry	1	8/29/2019
Naphthalene	ND	0.047		mg/Kg-dry	1	8/29/2019
2-Nitroaniline	ND	0.24		mg/Kg-dry	1	8/29/2019
3-Nitroaniline	ND	0.24		mg/Kg-dry	1	8/29/2019
4-Nitroaniline	ND	0.24		mg/Kg-dry	1	8/29/2019
2-Nitrophenol	ND	0.24		mg/Kg-dry	1	8/29/2019
4-Nitrophenol	ND	0.47		mg/Kg-dry	1	8/29/2019
Nitrobenzene	ND	0.047		mg/Kg-dry	1	8/29/2019
N-Nitrosodi-n-propylamine	ND	0.047		mg/Kg-dry	1	8/29/2019
N-Nitrosodimethylamine	ND	0.24		mg/Kg-dry	1	8/29/2019
N-Nitrosodiphenylamine	ND	0.047		mg/Kg-dry	1	8/29/2019
2, 2'-oxybis(1-Chloropropane)	ND	0.24		mg/Kg-dry	1	8/29/2019
Pentachlorophenol	ND	0.047		mg/Kg-dry	1	8/29/2019
Phenanthrene	0.34	0.047		mg/Kg-dry	1	8/29/2019
Phenol	ND	0.24		mg/Kg-dry	1	8/29/2019
Pyrene	0.59	0.047		mg/Kg-dry	1	8/29/2019
Pyridine	ND	0.93		mg/Kg-dry	1	8/29/2019
1,2,4-Trichlorobenzene	ND	0.24		mg/Kg-dry	1	8/29/2019
2,4,5-Trichlorophenol	ND	0.24		mg/Kg-dry	1	8/29/2019
2,4,6-Trichlorophenol	ND	0.24		mg/Kg-dry	1	8/29/2019

Metals by ICP/MS	SW6020A (SW3050B)				Prep Date: 8/30/2019	Analyst: JG
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Antimony	ND	2.4		mg/Kg-dry	10	8/30/2019
Arsenic	4.7	1.2		mg/Kg-dry	10	8/30/2019
Barium	150	1.2		mg/Kg-dry	10	8/30/2019
Beryllium	0.99	0.61		mg/Kg-dry	10	8/30/2019
Cadmium	1.6	0.61		mg/Kg-dry	10	8/30/2019
Calcium	140000	73		mg/Kg-dry	10	8/30/2019
Chromium	17	1.2		mg/Kg-dry	10	8/30/2019

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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-DUP-2

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 12:00:00 PM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-021

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>						
	<b>SW6020A (SW3050B)</b>			Prep Date: 8/30/2019		Analyst: JG
Cobalt	16	1.2		mg/Kg-dry	10	8/30/2019
Copper	57	3.1		mg/Kg-dry	10	8/30/2019
Iron	22000	37		mg/Kg-dry	10	8/30/2019
Lead	15	0.61		mg/Kg-dry	10	8/30/2019
Magnesium	7300	37		mg/Kg-dry	10	8/30/2019
Manganese	580	1.2		mg/Kg-dry	10	8/30/2019
Nickel	42	1.2		mg/Kg-dry	10	8/30/2019
Potassium	530	37		mg/Kg-dry	10	9/3/2019
Selenium	1.8	1.2		mg/Kg-dry	10	8/30/2019
Silver	ND	1.2		mg/Kg-dry	10	8/30/2019
Sodium	370	73		mg/Kg-dry	10	8/30/2019
Thallium	ND	1.2		mg/Kg-dry	10	8/30/2019
Vanadium	32	1.2		mg/Kg-dry	10	8/30/2019
Zinc	78	6.1		mg/Kg-dry	10	8/30/2019
<b>SPLP Metals by ICP/MS</b>						
	<b>SW1312/6020A (SW3005A)</b>			Prep Date: 8/29/2019		Analyst: MDT
Arsenic	ND	0.0040		mg/L	2	8/29/2019
Barium	ND	0.020		mg/L	2	8/29/2019
Beryllium	ND	0.0020		mg/L	2	8/29/2019
Cadmium	ND	0.0020		mg/L	2	8/29/2019
Chromium	ND	0.016		mg/L	2	8/29/2019
Cobalt	ND	0.0040		mg/L	2	8/29/2019
Copper	ND	0.020		mg/L	2	8/29/2019
Iron	0.45	0.20		mg/L	2	8/29/2019
Lead	ND	0.0020		mg/L	2	8/29/2019
Manganese	0.0044	0.0040		mg/L	2	8/29/2019
Nickel	ND	0.0080		mg/L	2	8/29/2019
Selenium	ND	0.0040		mg/L	2	8/29/2019
Silver	ND	0.0040		mg/L	2	8/29/2019
Zinc	ND	0.020		mg/L	2	8/29/2019
<b>TCLP Metals by ICP/MS</b>						
	<b>SW1311/6020A (SW3005A)</b>			Prep Date: 9/3/2019		Analyst: MDT
Arsenic	0.012	0.010		mg/L	5	9/3/2019
Barium	0.66	0.050		mg/L	5	9/3/2019
Beryllium	ND	0.0050		mg/L	5	9/3/2019
Cadmium	ND	0.0050		mg/L	5	9/3/2019
Chromium	ND	0.010		mg/L	5	9/3/2019
Cobalt	0.016	0.010		mg/L	5	9/3/2019
Copper	ND	0.10		mg/L	5	9/3/2019

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

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R - RPD outside accepted recovery limits

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E - Value above quantitation range

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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-DUP-2

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 12:00:00 PM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-021

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020A (SW3005A)</b>		Prep Date: <b>9/3/2019</b>		Analyst: <b>MDT</b>	
Iron	ND	0.25		mg/L	5	9/3/2019
Lead	ND	0.0050		mg/L	5	9/3/2019
Manganese	5.6	0.10		mg/L	5	9/3/2019
Nickel	0.028	0.010		mg/L	5	9/3/2019
Selenium	ND	0.010		mg/L	5	9/3/2019
Silver	ND	0.010		mg/L	5	9/3/2019
Zinc	ND	0.050		mg/L	5	9/3/2019
<b>TCLP Mercury</b>	<b>SW1311/7470A</b>		Prep Date: <b>9/3/2019</b>		Analyst: <b>LB</b>	
Mercury	ND	0.00020		mg/L	1	9/3/2019
<b>SPLP Mercury</b>	<b>SW1312/7470A</b>		Prep Date: <b>8/29/2019</b>		Analyst: <b>LB</b>	
Mercury	ND	0.00020		mg/L	1	8/30/2019
<b>Mercury</b>	<b>SW7471B</b>		Prep Date: <b>8/29/2019</b>		Analyst: <b>LB</b>	
Mercury	0.00035	0.00028		mg/Kg-dry	1	8/29/2019
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: <b>8/28/2019</b>		Analyst: <b>EDB</b>	
pH	7.43			pH Units	1	8/28/2019
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: <b>9/3/2019</b>		Analyst: <b>RW</b>	
Percent Moisture	29.2	0.2	*	wt%	1	9/3/2019

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded





# Illinois Environmental Protection Agency

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

## Uncontaminated Soil Certification

by Licensed Professional Engineer or Licensed Professional Geologist

for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

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

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

### I. Source Location Information

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

Project Name: IL Route 53 / US Route 12 / IL- Route 68 (Dundee Rd) Office Phone Number, if available: 847-705-4122

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

2171V2-15 (1000 E Dundee), 2171V2-21 (1122 E. Dundee), 2171V2-35 (1266-1298 E. Dundee), 2171V2-42 (1520 E. Dundee), 2171V2-60 (1630 N. Rand Rd)

City: Palatine State: IL Zip Code: 60074

County: Cook Township: Palatine

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

Latitude: 42.14 Longitude: - 88.01

(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

EPA Site Number(s), if assigned: BOL: \_\_\_\_\_ BOW: \_\_\_\_\_ BOA: \_\_\_\_\_

Approximate Start Date (mm/dd/yyyy): 11/8/2019 Approximate End Date (mm/dd/yyyy): \_\_\_\_\_

Estimated Volume of debris (cu. Yd.): 230

### II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Dept of Transportation, District 1

Street Address: 201 W. Center Court

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Dept of Transportation, District 1

Street Address: 201 W. Center Court

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil Certification

**III. Basis for Certification and Attachments**

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

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

Refer to Figures 4-1.1 through 4-1.4 in the Final PSI Rpt and borings 2171V2-15-01 (Dundee Road 67+50 LT), 2171V2-21-01 (Dundee Road 73+50 LT), 2171V2-35-01 (Dundee Road 87+00 LT), 2171V2-42-01 (Dundee Road 94+00 LT), 2171V-57-12 (US-12 / 58+43, 45 LT).

- 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 STAT Analysis Corporation reports #19081187 and #17010623. Site specific table of results is attached to this form.

**IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist**

I, Jeremy J. Reynolds, P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

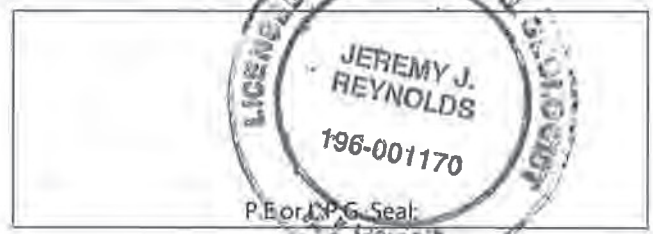
***Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))***

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

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

  
Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

10/19/19  
Date)

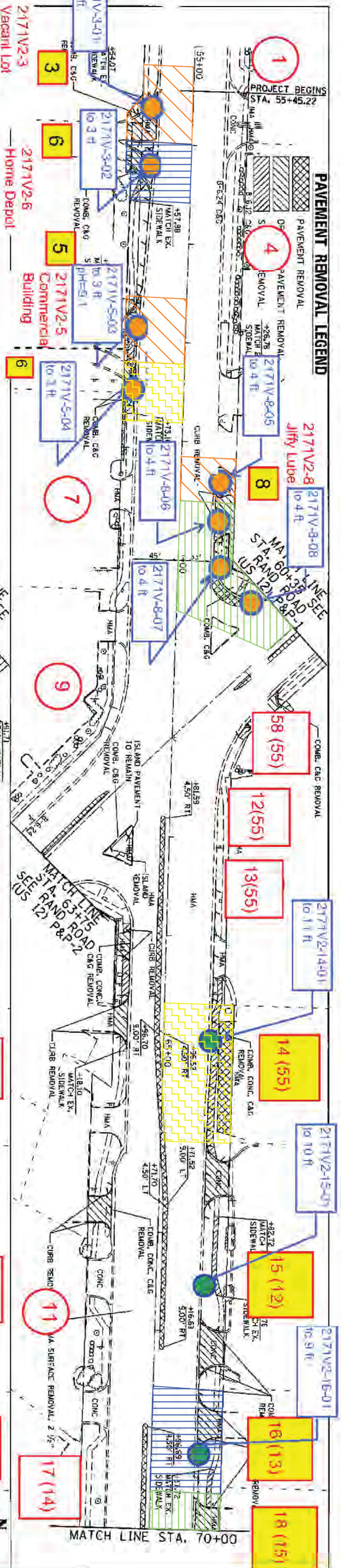




DATE	
PROJECT	2171V2-16-01
PROJECT CHECKED	RT, IS WAY CHECKED
DATE	
PROJECT	2171V2-16-01
PROJECT CHECKED	RT, IS WAY CHECKED
DATE	
PROJECT	2171V2-16-01
PROJECT CHECKED	RT, IS WAY CHECKED
DATE	

DATE	
PROJECT	2171V2-16-01
PROJECT CHECKED	RT, IS WAY CHECKED
DATE	
PROJECT	2171V2-16-01
PROJECT CHECKED	RT, IS WAY CHECKED
DATE	
PROJECT	2171V2-16-01
PROJECT CHECKED	RT, IS WAY CHECKED
DATE	

**PAVEMENT REMOVAL LEGEND**



**LEGEND**

740	SOIL BORING LOCATION
735	IDENTIFIED SITE WITH EXCAVATION
730	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED SOIL REFERENCE CONCENTRATIONS <P> MOST STRINGENT MAC BUT <B> BACKGROUND. MATERIAL MAY BE MANAGED ON SITE OR AS NON-SPECIAL WASTE (6)(1).
725	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS <P> MOST STRINGENT MAC BUT <M> MAC FOR MSA. MATERIAL MAY BE MANAGED ON-SITE OR TO A CDD/USFO WITHIN A MSA COUNTY (4)(2).
720	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS <P> MOST STRINGENT MAC BUT <M> MAC FOR MSA OR CHICAGO CORPORATE LIMITS. MATERIAL MAY BE MANAGED ON-SITE OR TO A CDD/USFO WITHIN A MSA COUNTY EXCLUDING CHICAGO OR WITHIN CHICAGO CORPORATE LIMITS (4)(3).
715	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS <P> MOST STRINGENT MAC BUT <M> MAC FOR MSA COUNTY EXCLUDING CHICAGO (A4).
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED TACO TIER 1 CONSTRUCTION WORKERS REFERENCE CONCENTRATIONS.
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL AREAS WITHOUT SHADING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.

**LEGEND**

740	SOIL BORING LOCATION	2019 Soil Boring Location
735	IDENTIFIED SITE WITH EXCAVATION	2017 Soil Boring Location
730	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED SOIL REFERENCE CONCENTRATIONS <P> MOST STRINGENT MAC BUT <B> BACKGROUND. MATERIAL MAY BE MANAGED ON SITE OR AS NON-SPECIAL WASTE (6)(1).	PESA SITE ID NUMBER FOR 2171V2 AND (2171V)
725	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS <P> MOST STRINGENT MAC BUT <M> MAC FOR MSA. MATERIAL MAY BE MANAGED ON-SITE OR TO A CDD/USFO WITHIN A MSA COUNTY (4)(2).	PESA Site Location with Excavation
720	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS <P> MOST STRINGENT MAC BUT <M> MAC FOR MSA OR CHICAGO CORPORATE LIMITS. MATERIAL MAY BE MANAGED ON-SITE OR TO A CDD/USFO WITHIN A MSA COUNTY EXCLUDING CHICAGO OR WITHIN CHICAGO CORPORATE LIMITS (4)(3).	
715	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS <P> MOST STRINGENT MAC BUT <M> MAC FOR MSA COUNTY EXCLUDING CHICAGO (A4).	

**FIGURE 4-1.1 EXTENT OF POTENTIALLY IMPACTED SOIL**  
**HUFF & HUFF, INC. WO#01D**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE	SHEET	OF	SHEETS	STA.	TO STA.
SECTION	COUNTY	TOTAL SHEETS	CONTRACT NO. 62AB6		
343	3041H-2				

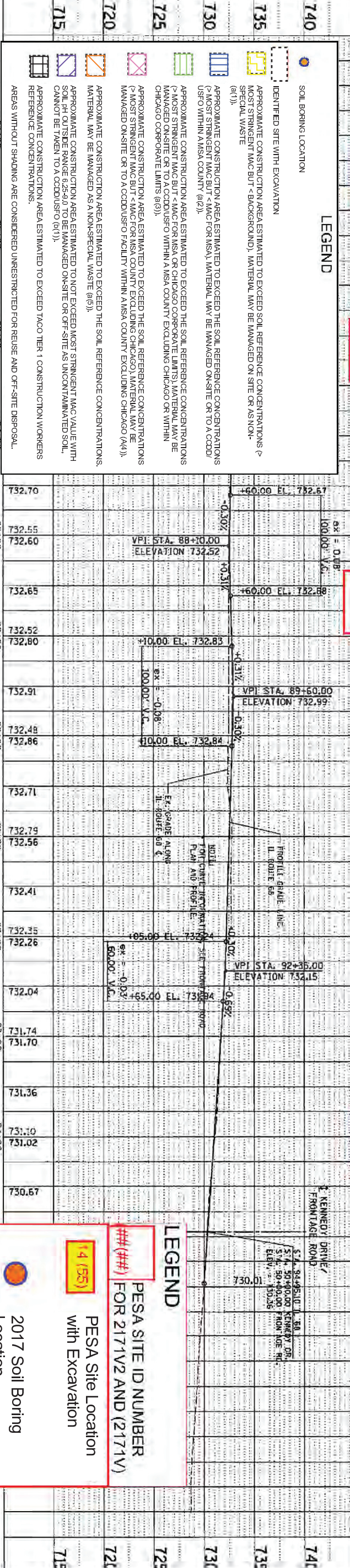
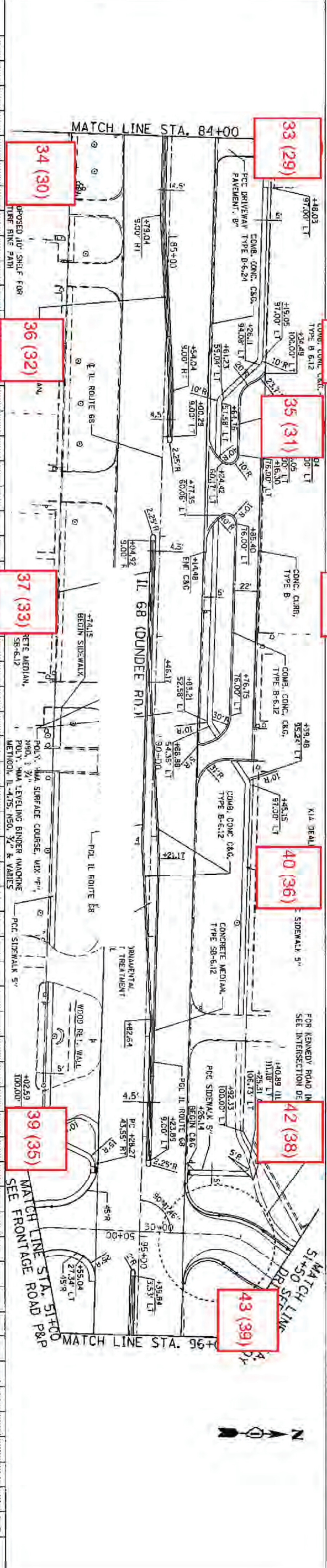
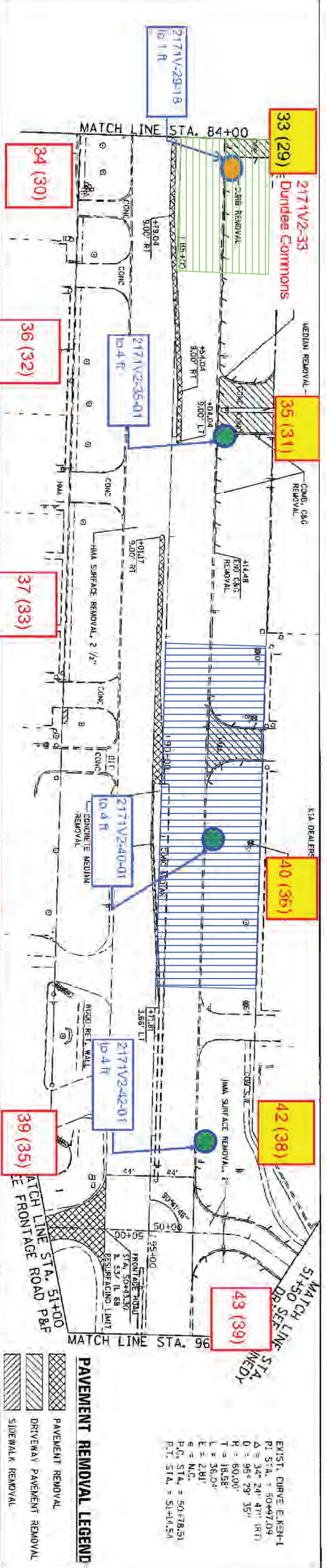






DATE	NO.	BY	REVISION
11/15/17	1	WJ	ISSUED FOR PERMIT
11/15/17	2	WJ	REVISED PER COMMENTS
11/15/17	3	WJ	REVISED PER COMMENTS
11/15/17	4	WJ	REVISED PER COMMENTS
11/15/17	5	WJ	REVISED PER COMMENTS
11/15/17	6	WJ	REVISED PER COMMENTS
11/15/17	7	WJ	REVISED PER COMMENTS
11/15/17	8	WJ	REVISED PER COMMENTS
11/15/17	9	WJ	REVISED PER COMMENTS
11/15/17	10	WJ	REVISED PER COMMENTS

DATE	NO.	BY	REVISION
11/15/17	1	WJ	ISSUED FOR PERMIT
11/15/17	2	WJ	REVISED PER COMMENTS
11/15/17	3	WJ	REVISED PER COMMENTS
11/15/17	4	WJ	REVISED PER COMMENTS
11/15/17	5	WJ	REVISED PER COMMENTS
11/15/17	6	WJ	REVISED PER COMMENTS
11/15/17	7	WJ	REVISED PER COMMENTS
11/15/17	8	WJ	REVISED PER COMMENTS
11/15/17	9	WJ	REVISED PER COMMENTS
11/15/17	10	WJ	REVISED PER COMMENTS



**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 USFO WITHIN AUSA COUNTY (a(2)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (C) MOST STRINGENT MAC BUT < MAC FOR MSA OR CHICAGO CORPORATE LIMITS. MATERIAL MAY BE MANAGED ON-SITE OR TO A CDDUSFO WITHIN A MSA COUNTY EXCLUDING CHICAGO OR WITHIN CHICAGO CORPORATE LIMITS (a(3)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (C) MOST STRINGENT MAC BUT < MAC FOR MSA OR CHICAGO CORPORATE LIMITS. MATERIAL MAY BE MANAGED ON-SITE OR TO A CDDUSFO 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 CDDUSFO (a(1)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED TACO TIER 1 CONSTRUCTION WORKERS REFERENCE CONCENTRATIONS.
- AREAS WITHOUT SHADING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.

**PAVEMENT REMOVAL LEGEND**

- PAVEMENT REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- SIDEWALK REMOVAL

EXIST. CURVE E.KEN-1  
 P.I. STA. = 50+47.09  
 Δ = 34° 24' 47" (RT)  
 D = 95° 29' 35"  
 R = 80.00'  
 T = 18.58'  
 L = 36.04'  
 E = 2.81'  
 B = N.C.  
 P.C. STA. = 50+178.51  
 P.T. STA. = 51+47.51

**LEGEND**

- 2017 Soil Boring Location
- 2019 Soil Boring Location
- PESA SITE ID NUMBER FOR 2171V2 AND (2171V)
- PESA Site Location with Excavation

**FIGURE 4-1.3 EXTENT OF POTENTIALLY IMPACTED SOIL**  
**HUFF & HUFF, INC. WO#01D**

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCALE: SHEET OF SHEETS

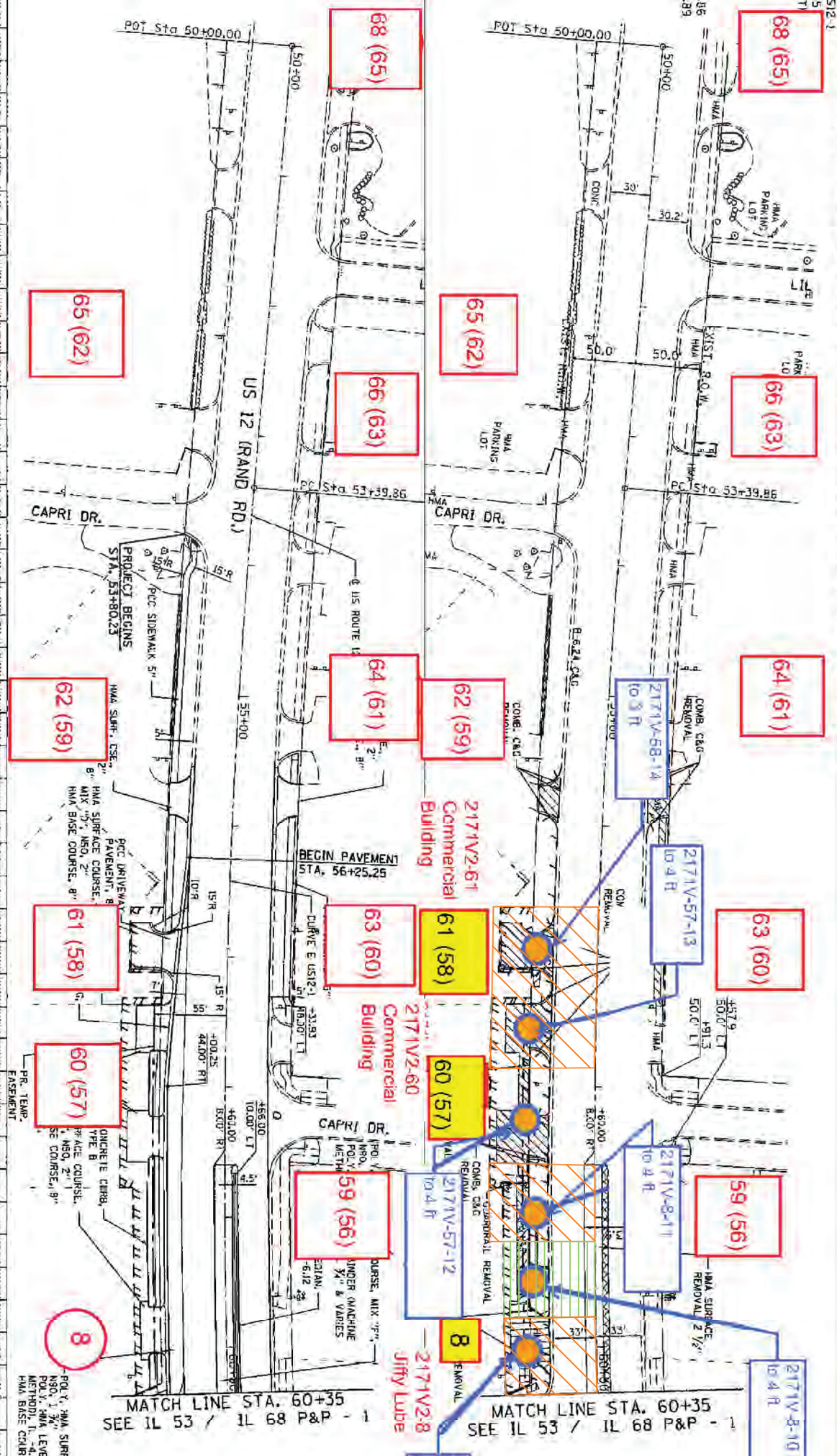
MTY	TOTAL SHEET
DKK	NO.
TRACT NO.	62A76
ST	



DATE	
BY	
DATE	
BY	

DATE	
BY	
DATE	
BY	

EXIST'G CURVE E-US12-1  
 P.I. STA. = 58+23.35  
 Δ = 6° 55' 05" LTR  
 D = 67.55' 27"  
 R = 6200.00'  
 T = 483.49'  
 L = 965.03'  
 E = 18.82'  
 B = N.C.  
 P.O. STA. = 53+39.86  
 P.I. STA. = 63+04.89



PROFILE	NO.	DATE
720		
725		
730		
735		
740		

STATION	ELEVATION	REMARKS
50+00	735.97	
51+00	735.80	
52+00	735.63	
53+00	735.66	
54+00	735.14	
55+00	735.19	
56+00	734.65	
57+00	734.71	
58+00	734.21	
59+00	734.24	
60+00	733.82	
61+00	733.82	
62+00	733.51	
63+00	733.55	
64+00	733.29	
65+00	733.43	
66+00	733.35	
67+00	733.47	
68+00	733.39	
69+00	733.58	
70+00	733.38	
71+00	733.56	
72+00	733.33	
73+00	733.39	
74+00	733.04	
75+00	733.17	
76+00	732.76	
77+00	732.96	
78+00	732.45	
79+00	732.71	
80+00	732.34	
81+00	732.39	
82+00	731.42	
83+00	731.90	
84+00	730.94	
85+00	731.21	

LEGEND	DESCRIPTION	PROFILE NO.
	2019 Soil Boring Location	720
	2017 Soil Boring Location	725
	2019 Soil Boring Location	730
	2017 Soil Boring Location	735
	IDENTIFIED SITE WITH EXCAVATION	740
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED SOIL REFERENCE CONCENTRATIONS <P> MOST STRINGENT MAC BUT <P> BACKGROUND. MATERIAL MAY BE MANAGED ON-SITE OR AS/NON-SPECIAL WASTE (a)(1).	740
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS <P> MOST STRINGENT MAC BUT <P> MAC FOR MSA. MATERIAL MAY BE MANAGED ON-SITE OR TO A CODD/USFO WITHIN A MSA COUNTY (a)(2).	740
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS <P> MOST STRINGENT MAC BUT <P> MAC FOR MSA OR CHICAGO CORPORATE LIMITS. MATERIAL MAY BE MANAGED ON-SITE OR TO A CODD/USFO WITHIN A MSA COUNTY EXCLUDING CHICAGO OR WITHIN CHICAGO CORPORATE LIMITS (a)(3).	740
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS <P> MOST STRINGENT MAC BUT <P> MAC FOR MSA COUNTY EXCLUDING CHICAGO. MATERIAL MAY BE MANAGED ON-SITE OR TO A CODD/USFO FACILITY WITHIN A MSA COUNTY EXCLUDING CHICAGO (a)(4).	740
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS. MATERIAL MAY BE MANAGED AS A NON-SPECIAL WASTE (a)(5).	740
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO NOT EXCEED MOST STRINGENT MAC VALUE WITH SOIL pH OUTSIDE RANGE 6.5-8.0 TO BE MANAGED ON-SITE OR OFF-SITE AS UNCONTAMINATED SOIL. CANNOT BE TAKEN TO A CODD/USFO (a)(1).	740
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED TACO TIER 1 CONSTRUCTION WORKERS REFERENCE CONCENTRATIONS.	740

FIGURE 4-1.4 EXTENT OF POTENTIALLY IMPACTED SOIL  
 HUFF & HUFF, INC. WO#01D

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCALE: SHEET: OF: SHEETS: STA. TO STA.

F&P SITE NO.	SECTION	COUNTY	TOTAL SHEETS
343	3041-N-2	COOK	62A/B

PAVEMENT REMOVAL LEGEND	
	PAVEMENT REMOVAL
	DRIVEWAY PAVEMENT REMOVAL
	SIDEWALK REMOVAL

LEGEND	DESCRIPTION	PROFILE NO.
	PESA SITE ID NUMBER FOR 2171V2 AND (2171V)	740
	PESA Site Location with Excavation	740

8  
 POLY. HMA SURFACE COURSE, MIX "F", NSO, 1.7% LEVELING BINDER MACHINE  
 POLY. HMA SURFACE COURSE, MIX "F", NSO, 1.7% LEVELING BINDER MACHINE  
 HMA BASE COURSE, 8"



Soils for **Unrestricted** Reuse or Disposal at CCDD Facilities  
 Illinois Department of Transportation, District One  
 IL Route 68 - US 12, Palatine, Cook County, Illinois  
 BDE Sequence No.: 15747  
 PTB: 178-008 / H-1, WO# 01D

Boring ID	Sample Depth, ft	Sample Date	Excavation Area(s)	[SGS Site No.(s)]	Soil Reference Concentrations <sup>d/</sup>	Soil Remediation Objective for Construction Workers <sup>b/</sup>	Soil Remediation Objective for Residential Exposure <sup>c/</sup>	2171V2-15-01	2171V2-15-01	2171V2-21-01	2171V2-21-01	2171V2-35-01	2171V2-42-01	2171V-57-12
								0-5	5-10	0-5	5-9	0-4	0-4	0-4
								8/23/19	8/23/19	8/23/19	8/23/19	8/23/19	8/23/19	01/19/17
								2171V2-15 (2171V-12)	2171V2-15 (2171V-12)	2171V2-21 (2171V-18)	2171V2-21 (2171V-18)	2171V2-35 (2171V-31)	2171V2-42 (2171V-38)	2171V2-60 (2171V-57), 2171V2-8 (2171V-8)
<b>Parameter</b>														
<b>VOCs, mg/kg</b>														
NONE DETECTED														
<b>SVOCs, mg/kg</b>														
NO EXCEEDANCES														
<b>Laboratory soil pH (s.u.)</b>														
6.25 - 9.0 --- --- 8.45 8.37 7.68 7.85 7.67 8.36 7.9														
<b>Total Metals, mg/kg</b>														
Aluminum --- --- --- --- --- --- --- 11000														
Antimony 5 82 31 < 2.1 < 2.1 < 2.1 < 2.2 < 2.2 < 2.0 < 2.1														
Arsenic 11.3 / 13 61 13 10 6.4 7.9 8.2 11 11 9.5														
Barium 1,500 14,000 5500 120 110 130 150 160 76 66														
Beryllium 22 410 160 1.0 1.1 1.1 1.3 1.0 0.90 0.73														
Cadmium 5.2 200 78 < 0.52 < 0.54 < 0.53 0.62 < 0.55 < 0.49 < 0.53														
Calcium --- --- --- 17000 30000 9900 12000 5600 22000 4600														
Chromium 21 690 230 25 21 25 24 24 22 17														
Cobalt 20 12,000 4700 13 9.6 12 12 18 14 18														
Copper 2,900 8,200 2900 29 26 30 35 28 30 22														
Cyanide --- --- --- --- --- --- --- < 0.30														
Iron 15,000 / 15,900 --- --- 28000 19000 23000 23000 27000 28000 22000														
Lead 107 700 400 45 32 38 24 28 29 31														
Magnesium 325,000 730,000 325000 10000 10000 7200 7000 3900 14000 4600														
Manganese 630 / 636 4,100 1600 620 500 360 190 1600 900 740														
Mercury 0.89 0.1 10 0.036 0.032 0.045 0.046 0.030 0.028 0.033														
Nickel 100 4,100 1600 31 24 33 33 28 34 24														
Potassium --- --- --- 1800 980 1800 1000 2100 1600 1300														
Selenium 1.3 1,000 390 1.3 1.2 1.5 1.8 1.6 1.3 1.3														
Silver 4.4 1,000 390 < 1.0 < 1.1 < 1.1 < 1.1 < 1.1 < 0.98 < 1.1														
Sodium --- --- --- 790 690 380 520 2200 2200 930														
Thallium 2.6 160 6.3 < 1.0 < 1.1 < 1.1 < 1.1 < 1.1 < 0.98 < 1.1														
Vanadium 550 1,400 550 34 31 35 31 35 31 21														
Zinc 5,100 61,000 23000 79 61 80 73 78 64 56														
<b>TCLP Metals, mg/L</b>														
Class I Groundwater <sup>d/</sup>														
Arsenic 0.05 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010														
Barium 2 0.41 0.38 0.41 0.18 0.30 0.49 0.34														
Beryllium 0.004 < 0.0050 < 0.0050 < 0.0050 < 0.0050 < 0.0050 < 0.0050 < 0.0050														
Cadmium 0.005 < 0.0050 < 0.0050 < 0.0050 < 0.0050 < 0.0050 < 0.0050 < 0.0050														
Chromium 0.1 < 0.010 < 0.010 < 0.070 < 0.070 < 0.070 < 0.070 < 0.010														
Cobalt 1 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010														
Copper 0.65 < 0.10 < 0.10 < 0.025 < 0.025 < 0.025 < 0.025 < 0.025														
Iron 5 < 0.25 < 0.25 < 0.50 < 0.50 0.99 < 0.50 < 0.25														
Lead 0.0075 < 0.0050 < 0.0050 < 0.0075 < 0.0075 < 0.0075 < 0.0075 < 0.0050														
Manganese 0.15 0.78 1.1 0.92 0.42 1.8 2.0 1.0														
Mercury 0.002 < 0.00020 < 0.00020 < 0.00020 < 0.00020 < 0.00020 < 0.00020 < 0.00020														
Nickel 0.1 < 0.010 0.012 < 0.035 < 0.035 < 0.035 < 0.035 < 0.010														
Selenium 0.05 < 0.010 < 0.010 < 0.0050 < 0.0050 < 0.0050 < 0.0050 < 0.010														
Silver 0.05 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010														
Zinc 5 < 0.050 < 0.050 < 0.10 < 0.10 < 0.10 < 0.10 < 0.010														
<b>SPLP Metals, mg/L</b>														
Class I Groundwater <sup>d/</sup>														
Arsenic 0.05 < 0.0040 < 0.0040 < 0.0040 < 0.0040 0.0065 < 0.0040 < 0.0040														
Barium 2 0.020 < 0.020 0.027 < 0.020 0.078 0.063 < 0.020														
Beryllium 0.004 < 0.0020 < 0.0020 < 0.0020 < 0.0020 < 0.0020 < 0.0020 < 0.0020														
Cadmium 0.005 < 0.0020 < 0.0020 < 0.0020 < 0.0020 < 0.0020 < 0.0020 < 0.0020														
Chromium 0.1 < 0.016 < 0.016 < 0.016 < 0.016 < 0.016 < 0.016 < 0.016														
Cobalt 1 < 0.0040 < 0.0040 < 0.0040 < 0.0040 < 0.0040 < 0.0040 < 0.0040														
Copper 0.65 < 0.020 < 0.020 < 0.020 < 0.020 0.021 0.039 < 0.020														
Iron 5 3.3 2.3 6.1 4.8 3.7 2.6 < 0.020														
Lead 0.0075 0.0047 0.0030 0.0067 0.0026 0.013 0.0084 < 0.0075														
Manganese 0.15 0.021 0.011 0.041 0.012 0.12 0.055 0.033														
Mercury 0.002 < 0.00020 < 0.00020 < 0.00020 < 0.00020 < 0.00020 < 0.00020 < 0.00020														
Nickel 0.1 < 0.0080 < 0.0080 0.0082 < 0.0080 0.012 0.0090 < 0.0080														
Selenium 0.05 < 0.0040 < 0.0040 < 0.0040 < 0.0040 < 0.0040 < 0.0040 < 0.0040														
Silver 0.05 < 0.0040 < 0.0040 < 0.0040 < 0.0040 < 0.0040 < 0.0040 < 0.0040														
Zinc 5 < 0.020 < 0.020 0.020 < 0.020 0.022 0.035 < 0.020														

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

<sup>d/</sup> Soil reference concentrations from MAC table. Background values for MSA counties are included as applicable.

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

<sup>b/</sup> Soil Remediation Objective for Construction Workers, most stringent of the Ingestion or Inhalation exposure route.

<sup>c/</sup> Soil Remediation Objective for Residential exposure, most stringent of the Ingestion or Inhalation exposure route.

Shaded values indicate concentration exceeds reference concentration

##(##) - PESA PVLIR Site Number (Original PESA Site Number)

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 11, 2019

Date Printed: September 11, 2019

**ANALYTICAL RESULTS**

Client: Huff &amp; Huff, Inc.

Work Order: 19081187 Revision 0

Project: 81.0220509.59, IDOT, Palatine, IL

Lab ID: 19081187-014

Client Sample ID: 2171V2-15-01 (0-5)

Collection Date: 8/23/2019 10:55:00 AM

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: <b>8/27/2019</b>		Analyst: <b>CBG</b>
Acetone	ND	0.063		mg/Kg-dry	1	8/31/2019
Benzene	ND	0.0042		mg/Kg-dry	1	8/31/2019
Bromodichloromethane	ND	0.0042		mg/Kg-dry	1	8/31/2019
Bromoform	ND	0.0042		mg/Kg-dry	1	8/31/2019
Bromomethane	ND	0.0085		mg/Kg-dry	1	8/31/2019
2-Butanone	ND	0.063		mg/Kg-dry	1	8/31/2019
Carbon disulfide	ND	0.042		mg/Kg-dry	1	8/31/2019
Carbon tetrachloride	ND	0.0042		mg/Kg-dry	1	8/31/2019
Chlorobenzene	ND	0.0042		mg/Kg-dry	1	8/31/2019
Chloroethane	ND	0.0085		mg/Kg-dry	1	8/31/2019
Chloroform	ND	0.0042		mg/Kg-dry	1	8/31/2019
Chloromethane	ND	0.0085		mg/Kg-dry	1	8/31/2019
Dibromochloromethane	ND	0.0042		mg/Kg-dry	1	8/31/2019
1,1-Dichloroethane	ND	0.0042		mg/Kg-dry	1	8/31/2019
1,2-Dichloroethane	ND	0.0042		mg/Kg-dry	1	8/31/2019
1,1-Dichloroethene	ND	0.0042		mg/Kg-dry	1	8/31/2019
cis-1,2-Dichloroethene	ND	0.0042		mg/Kg-dry	1	8/31/2019
trans-1,2-Dichloroethene	ND	0.0042		mg/Kg-dry	1	8/31/2019
1,2-Dichloropropane	ND	0.0042		mg/Kg-dry	1	8/31/2019
cis-1,3-Dichloropropene	ND	0.0018		mg/Kg-dry	1	8/31/2019
trans-1,3-Dichloropropene	ND	0.0018		mg/Kg-dry	1	8/31/2019
Ethylbenzene	ND	0.0042		mg/Kg-dry	1	8/31/2019
2-Hexanone	ND	0.018		mg/Kg-dry	1	8/31/2019
4-Methyl-2-pentanone	ND	0.018		mg/Kg-dry	1	8/31/2019
Methylene chloride	ND	0.0085		mg/Kg-dry	1	8/31/2019
Methyl tert-butyl ether	ND	0.0042		mg/Kg-dry	1	8/31/2019
Styrene	ND	0.0042		mg/Kg-dry	1	8/31/2019
1,1,2,2-Tetrachloroethane	ND	0.0042		mg/Kg-dry	1	8/31/2019
Tetrachloroethene	ND	0.0042		mg/Kg-dry	1	8/31/2019
Toluene	ND	0.0042		mg/Kg-dry	1	8/31/2019
1,1,1-Trichloroethane	ND	0.0042		mg/Kg-dry	1	8/31/2019
1,1,2-Trichloroethane	ND	0.0042		mg/Kg-dry	1	8/31/2019
Trichloroethene	ND	0.0042		mg/Kg-dry	1	8/31/2019
Vinyl chloride	ND	0.0042		mg/Kg-dry	1	8/31/2019
Xylenes, Total	ND	0.013		mg/Kg-dry	1	8/31/2019
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270D (SW3550B)</b>		Prep Date: <b>8/28/2019</b>		Analyst: <b>SJC</b>
Acenaphthene	ND	0.037		mg/Kg-dry	1	8/29/2019
Acenaphthylene	ND	0.037		mg/Kg-dry	1	8/29/2019

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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-15-01 (0-5)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 10:55:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-014

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270D (SW3550B)</b>					Prep Date: 8/28/2019 Analyst: SJC
Aniline	ND	0.39		mg/Kg-dry	1	8/29/2019
Anthracene	ND	0.037		mg/Kg-dry	1	8/29/2019
Benz(a)anthracene	0.086	0.037		mg/Kg-dry	1	8/29/2019
Benzidine	ND	0.37		mg/Kg-dry	1	8/29/2019
Benzo(a)pyrene	0.082	0.037		mg/Kg-dry	1	8/29/2019
Benzo(b)fluoranthene	0.074	0.037		mg/Kg-dry	1	8/29/2019
Benzo(g,h,i)perylene	0.057	0.037		mg/Kg-dry	1	8/29/2019
Benzo(k)fluoranthene	0.057	0.037		mg/Kg-dry	1	8/29/2019
Benzoic acid	ND	0.96		mg/Kg-dry	1	8/29/2019
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	8/29/2019
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	8/29/2019
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	8/29/2019
Bis(2-ethylhexyl)phthalate	ND	0.96		mg/Kg-dry	1	8/29/2019
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/29/2019
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2019
Carbazole	ND	0.20		mg/Kg-dry	1	8/29/2019
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	8/29/2019
4-Chloro-3-methylphenol	ND	0.37		mg/Kg-dry	1	8/29/2019
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	8/29/2019
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	8/29/2019
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/29/2019
Chrysene	0.088	0.037		mg/Kg-dry	1	8/29/2019
Dibenz(a,h)anthracene	ND	0.037		mg/Kg-dry	1	8/29/2019
Dibenzofuran	ND	0.20		mg/Kg-dry	1	8/29/2019
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2019
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2019
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2019
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	8/29/2019
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	8/29/2019
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2019
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	8/29/2019
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2019
4,6-Dinitro-2-methylphenol	ND	0.37		mg/Kg-dry	1	8/29/2019
2,4-Dinitrophenol	ND	0.96		mg/Kg-dry	1	8/29/2019
2,4-Dinitrotoluene	ND	0.037		mg/Kg-dry	1	8/29/2019
2,6-Dinitrotoluene	ND	0.037		mg/Kg-dry	1	8/29/2019
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2019
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2019

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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-15-01 (0-5)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 10:55:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-014

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270D (SW3550B)				Prep Date: 8/28/2019	Analyst: SJC
Fluoranthene	0.15	0.037		mg/Kg-dry	1	8/29/2019
Fluorene	ND	0.037		mg/Kg-dry	1	8/29/2019
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2019
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	8/29/2019
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	8/29/2019
Hexachloroethane	ND	0.20		mg/Kg-dry	1	8/29/2019
Indeno(1,2,3-cd)pyrene	0.057	0.037		mg/Kg-dry	1	8/29/2019
Isophorone	ND	0.20		mg/Kg-dry	1	8/29/2019
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	8/29/2019
2-Methylphenol	ND	0.20		mg/Kg-dry	1	8/29/2019
4-Methylphenol	ND	0.20		mg/Kg-dry	1	8/29/2019
Naphthalene	ND	0.037		mg/Kg-dry	1	8/29/2019
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/29/2019
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/29/2019
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/29/2019
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	8/29/2019
4-Nitrophenol	ND	0.37		mg/Kg-dry	1	8/29/2019
Nitrobenzene	ND	0.037		mg/Kg-dry	1	8/29/2019
N-Nitrosodi-n-propylamine	ND	0.037		mg/Kg-dry	1	8/29/2019
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	8/29/2019
N-Nitrosodiphenylamine	ND	0.037		mg/Kg-dry	1	8/29/2019
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	8/29/2019
Pentachlorophenol	ND	0.037		mg/Kg-dry	1	8/29/2019
Phenanthrene	0.057	0.037		mg/Kg-dry	1	8/29/2019
Phenol	ND	0.20		mg/Kg-dry	1	8/29/2019
Pyrene	0.12	0.037		mg/Kg-dry	1	8/29/2019
Pyridine	ND	0.77		mg/Kg-dry	1	8/29/2019
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2019
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/29/2019
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/29/2019

Metals by ICP/MS	SW6020A (SW3050B)				Prep Date: 8/30/2019	Analyst: JG
Antimony	ND	2.1		mg/Kg-dry	10	9/3/2019
Arsenic	10	1.0		mg/Kg-dry	10	8/31/2019
Barium	120	1.0		mg/Kg-dry	10	8/31/2019
Beryllium	1.0	0.52		mg/Kg-dry	10	8/31/2019
Cadmium	ND	0.52		mg/Kg-dry	10	8/31/2019
Calcium	17000	62		mg/Kg-dry	10	8/31/2019
Chromium	25	1.0		mg/Kg-dry	10	8/31/2019

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Date Reported: September 11, 2019

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Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-15-01 (0-5)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 10:55:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-014

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Metals by ICP/MS	SW6020A (SW3050B)		Prep Date: 8/30/2019		Analyst: JG	
Cobalt	13	1.0		mg/Kg-dry	10	8/31/2019
Copper	29	2.6		mg/Kg-dry	10	8/31/2019
Iron	28000	31		mg/Kg-dry	10	8/31/2019
Lead	45	0.52		mg/Kg-dry	10	8/31/2019
Magnesium	10000	31		mg/Kg-dry	10	8/31/2019
Manganese	620	1.0		mg/Kg-dry	10	8/31/2019
Nickel	31	1.0		mg/Kg-dry	10	8/31/2019
Potassium	1800	31		mg/Kg-dry	10	8/31/2019
Selenium	1.3	1.0		mg/Kg-dry	10	8/31/2019
Silver	ND	1.0		mg/Kg-dry	10	8/31/2019
Sodium	790	62		mg/Kg-dry	10	8/31/2019
Thallium	ND	1.0		mg/Kg-dry	10	8/31/2019
Vanadium	34	1.0		mg/Kg-dry	10	8/31/2019
Zinc	79	5.2		mg/Kg-dry	10	8/31/2019

SPLP Metals by ICP/MS	SW1312/6020A (SW3005A)		Prep Date: 8/29/2019		Analyst: MDT	
Arsenic	ND	0.0040		mg/L	2	8/30/2019
Barium	0.020	0.020		mg/L	2	8/30/2019
Beryllium	ND	0.0020		mg/L	2	8/30/2019
Cadmium	ND	0.0020		mg/L	2	8/30/2019
Chromium	ND	0.016		mg/L	2	8/30/2019
Cobalt	ND	0.0040		mg/L	2	8/30/2019
Copper	ND	0.020		mg/L	2	8/30/2019
Iron	3.3	0.20		mg/L	2	8/30/2019
Lead	0.0047	0.0020		mg/L	2	8/30/2019
Manganese	0.021	0.0040		mg/L	2	8/30/2019
Nickel	ND	0.0080		mg/L	2	8/30/2019
Selenium	ND	0.0040		mg/L	2	8/30/2019
Silver	ND	0.0040		mg/L	2	8/30/2019
Zinc	ND	0.020		mg/L	2	8/30/2019

TCLP Metals by ICP/MS	SW1311/6020A (SW3005A)		Prep Date: 9/3/2019		Analyst: JG	
Arsenic	ND	0.010		mg/L	5	9/3/2019
Barium	0.41	0.050		mg/L	5	9/3/2019
Beryllium	ND	0.0050		mg/L	5	9/3/2019
Cadmium	ND	0.0050		mg/L	5	9/3/2019
Chromium	ND	0.010		mg/L	5	9/3/2019
Cobalt	ND	0.010		mg/L	5	9/3/2019
Copper	ND	0.10		mg/L	5	9/3/2019

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Client: Huff &amp; Huff, Inc.

Work Order: 19081187 Revision 0

Project: 81.0220509.59, IDOT, Palatine, IL

Lab ID: 19081187-014

Client Sample ID: 2171V2-15-01 (0-5)

Collection Date: 8/23/2019 10:55:00 AM

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020A (SW3005A)</b>		Prep Date: <b>9/3/2019</b>		Analyst: <b>JG</b>	
Iron	ND	0.25		mg/L	5	9/3/2019
Lead	ND	0.0050		mg/L	5	9/3/2019
Manganese	0.78	0.010		mg/L	5	9/3/2019
Nickel	ND	0.010		mg/L	5	9/3/2019
Selenium	ND	0.010		mg/L	5	9/3/2019
Silver	ND	0.010		mg/L	5	9/3/2019
Zinc	ND	0.050		mg/L	5	9/3/2019
<b>TCLP Mercury</b>	<b>SW1311/7470A</b>		Prep Date: <b>9/3/2019</b>		Analyst: <b>LB</b>	
Mercury	ND	0.00020		mg/L	1	9/3/2019
<b>SPLP Mercury</b>	<b>SW1312/7470A</b>		Prep Date: <b>8/29/2019</b>		Analyst: <b>LB</b>	
Mercury	ND	0.00020		mg/L	1	8/30/2019
<b>Mercury</b>	<b>SW7471B</b>		Prep Date: <b>8/29/2019</b>		Analyst: <b>LB</b>	
Mercury	0.036	0.00020		mg/Kg-dry	1	8/29/2019
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: <b>8/28/2019</b>		Analyst: <b>EDB</b>	
pH	8.45			pH Units	1	8/28/2019
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: <b>9/3/2019</b>		Analyst: <b>RW</b>	
Percent Moisture	14.4	0.2	*	wt%	1	9/4/2019

**Qualifiers:**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-21-01 (0-5)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 10:10:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: <b>8/27/2019</b>		Analyst: <b>CBG</b>
Acetone	ND	0.074		mg/Kg-dry	1	8/30/2019
Benzene	ND	0.0049		mg/Kg-dry	1	8/30/2019
Bromodichloromethane	ND	0.0049		mg/Kg-dry	1	8/30/2019
Bromoform	ND	0.0049		mg/Kg-dry	1	8/30/2019
Bromomethane	ND	0.010		mg/Kg-dry	1	8/30/2019
2-Butanone	ND	0.074		mg/Kg-dry	1	8/30/2019
Carbon disulfide	ND	0.049		mg/Kg-dry	1	8/30/2019
Carbon tetrachloride	ND	0.0049		mg/Kg-dry	1	8/30/2019
Chlorobenzene	ND	0.0049		mg/Kg-dry	1	8/30/2019
Chloroethane	ND	0.010		mg/Kg-dry	1	8/30/2019
Chloroform	ND	0.0049		mg/Kg-dry	1	8/30/2019
Chloromethane	ND	0.010		mg/Kg-dry	1	8/30/2019
Dibromochloromethane	ND	0.0049		mg/Kg-dry	1	8/30/2019
1,1-Dichloroethane	ND	0.0049		mg/Kg-dry	1	8/30/2019
1,2-Dichloroethane	ND	0.0049		mg/Kg-dry	1	8/30/2019
1,1-Dichloroethene	ND	0.0049		mg/Kg-dry	1	8/30/2019
cis-1,2-Dichloroethene	ND	0.0049		mg/Kg-dry	1	8/30/2019
trans-1,2-Dichloroethene	ND	0.0049		mg/Kg-dry	1	8/30/2019
1,2-Dichloropropane	ND	0.0049		mg/Kg-dry	1	8/30/2019
cis-1,3-Dichloropropene	ND	0.0020		mg/Kg-dry	1	8/30/2019
trans-1,3-Dichloropropene	ND	0.0020		mg/Kg-dry	1	8/30/2019
Ethylbenzene	ND	0.0049		mg/Kg-dry	1	8/30/2019
2-Hexanone	ND	0.020		mg/Kg-dry	1	8/30/2019
4-Methyl-2-pentanone	ND	0.020		mg/Kg-dry	1	8/30/2019
Methylene chloride	ND	0.010		mg/Kg-dry	1	8/30/2019
Methyl tert-butyl ether	ND	0.0049		mg/Kg-dry	1	8/30/2019
Styrene	ND	0.0049		mg/Kg-dry	1	8/30/2019
1,1,2,2-Tetrachloroethane	ND	0.0049		mg/Kg-dry	1	8/30/2019
Tetrachloroethene	ND	0.0049		mg/Kg-dry	1	8/30/2019
Toluene	ND	0.0049		mg/Kg-dry	1	8/30/2019
1,1,1-Trichloroethane	ND	0.0049		mg/Kg-dry	1	8/30/2019
1,1,2-Trichloroethane	ND	0.0049		mg/Kg-dry	1	8/30/2019
Trichloroethene	ND	0.0049		mg/Kg-dry	1	8/30/2019
Vinyl chloride	ND	0.0049		mg/Kg-dry	1	8/30/2019
Xylenes, Total	ND	0.015		mg/Kg-dry	1	8/30/2019
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270D (SW3550B)</b>		Prep Date: <b>8/28/2019</b>		Analyst: <b>SJC</b>
Acenaphthene	ND	0.042		mg/Kg-dry	1	8/29/2019
Acenaphthylene	ND	0.042		mg/Kg-dry	1	8/29/2019

**Qualifiers:**  
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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-21-01 (0-5)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 10:10:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270D (SW3550B)</b>		Prep Date: 8/28/2019		Analyst: SJC
Aniline	ND	0.42		mg/Kg-dry	1	8/29/2019
Anthracene	ND	0.042		mg/Kg-dry	1	8/29/2019
Benz(a)anthracene	ND	0.042		mg/Kg-dry	1	8/29/2019
Benzidine	ND	0.42		mg/Kg-dry	1	8/29/2019
Benzo(a)pyrene	ND	0.042		mg/Kg-dry	1	8/29/2019
Benzo(b)fluoranthene	ND	0.042		mg/Kg-dry	1	8/29/2019
Benzo(g,h,i)perylene	ND	0.042		mg/Kg-dry	1	8/29/2019
Benzo(k)fluoranthene	ND	0.042		mg/Kg-dry	1	8/29/2019
Benzoic acid	ND	1.0		mg/Kg-dry	1	8/29/2019
Benzyl alcohol	ND	0.21		mg/Kg-dry	1	8/29/2019
Bis(2-chloroethoxy)methane	ND	0.21		mg/Kg-dry	1	8/29/2019
Bis(2-chloroethyl)ether	ND	0.21		mg/Kg-dry	1	8/29/2019
Bis(2-ethylhexyl)phthalate	ND	1.0		mg/Kg-dry	1	8/29/2019
4-Bromophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	8/29/2019
Butyl benzyl phthalate	ND	0.21		mg/Kg-dry	1	8/29/2019
Carbazole	ND	0.21		mg/Kg-dry	1	8/29/2019
4-Chloroaniline	ND	0.21		mg/Kg-dry	1	8/29/2019
4-Chloro-3-methylphenol	ND	0.42		mg/Kg-dry	1	8/29/2019
2-Chloronaphthalene	ND	0.21		mg/Kg-dry	1	8/29/2019
2-Chlorophenol	ND	0.21		mg/Kg-dry	1	8/29/2019
4-Chlorophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	8/29/2019
Chrysene	ND	0.042		mg/Kg-dry	1	8/29/2019
Dibenz(a,h)anthracene	ND	0.042		mg/Kg-dry	1	8/29/2019
Dibenzofuran	ND	0.21		mg/Kg-dry	1	8/29/2019
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	8/29/2019
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	8/29/2019
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	8/29/2019
3,3'-Dichlorobenzidine	ND	0.21		mg/Kg-dry	1	8/29/2019
2,4-Dichlorophenol	ND	0.21		mg/Kg-dry	1	8/29/2019
Diethyl phthalate	ND	0.21		mg/Kg-dry	1	8/29/2019
2,4-Dimethylphenol	ND	0.21		mg/Kg-dry	1	8/29/2019
Dimethyl phthalate	ND	0.21		mg/Kg-dry	1	8/29/2019
4,6-Dinitro-2-methylphenol	ND	0.42		mg/Kg-dry	1	8/29/2019
2,4-Dinitrophenol	ND	1.0		mg/Kg-dry	1	8/29/2019
2,4-Dinitrotoluene	ND	0.042		mg/Kg-dry	1	8/29/2019
2,6-Dinitrotoluene	ND	0.042		mg/Kg-dry	1	8/29/2019
Di-n-butyl phthalate	ND	0.21		mg/Kg-dry	1	8/29/2019
Di-n-octyl phthalate	ND	0.21		mg/Kg-dry	1	8/29/2019

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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-21-01 (0-5)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 10:10:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270D (SW3550B)				Prep Date: 8/28/2019	Analyst: SJC
Fluoranthene	ND	0.042		mg/Kg-dry	1	8/29/2019
Fluorene	ND	0.042		mg/Kg-dry	1	8/29/2019
Hexachlorobenzene	ND	0.21		mg/Kg-dry	1	8/29/2019
Hexachlorobutadiene	ND	0.21		mg/Kg-dry	1	8/29/2019
Hexachlorocyclopentadiene	ND	0.21		mg/Kg-dry	1	8/29/2019
Hexachloroethane	ND	0.21		mg/Kg-dry	1	8/29/2019
Indeno(1,2,3-cd)pyrene	ND	0.042		mg/Kg-dry	1	8/29/2019
Isophorone	ND	0.21		mg/Kg-dry	1	8/29/2019
2-Methylnaphthalene	ND	0.21		mg/Kg-dry	1	8/29/2019
2-Methylphenol	ND	0.21		mg/Kg-dry	1	8/29/2019
4-Methylphenol	ND	0.21		mg/Kg-dry	1	8/29/2019
Naphthalene	ND	0.042		mg/Kg-dry	1	8/29/2019
2-Nitroaniline	ND	0.21		mg/Kg-dry	1	8/29/2019
3-Nitroaniline	ND	0.21		mg/Kg-dry	1	8/29/2019
4-Nitroaniline	ND	0.21		mg/Kg-dry	1	8/29/2019
2-Nitrophenol	ND	0.21		mg/Kg-dry	1	8/29/2019
4-Nitrophenol	ND	0.42		mg/Kg-dry	1	8/29/2019
Nitrobenzene	ND	0.042		mg/Kg-dry	1	8/29/2019
N-Nitrosodi-n-propylamine	ND	0.042		mg/Kg-dry	1	8/29/2019
N-Nitrosodimethylamine	ND	0.21		mg/Kg-dry	1	8/29/2019
N-Nitrosodiphenylamine	ND	0.042		mg/Kg-dry	1	8/29/2019
2, 2'-oxybis(1-Chloropropane)	ND	0.21		mg/Kg-dry	1	8/29/2019
Pentachlorophenol	ND	0.042		mg/Kg-dry	1	8/29/2019
Phenanthrene	ND	0.042		mg/Kg-dry	1	8/29/2019
Phenol	ND	0.21		mg/Kg-dry	1	8/29/2019
Pyrene	ND	0.042		mg/Kg-dry	1	8/29/2019
Pyridine	ND	0.84		mg/Kg-dry	1	8/29/2019
1,2,4-Trichlorobenzene	ND	0.21		mg/Kg-dry	1	8/29/2019
2,4,5-Trichlorophenol	ND	0.21		mg/Kg-dry	1	8/29/2019
2,4,6-Trichlorophenol	ND	0.21		mg/Kg-dry	1	8/29/2019

Metals by ICP/MS	SW6020A (SW3050B)				Prep Date: 8/30/2019	Analyst: JG
Antimony	ND	2.1		mg/Kg-dry	10	9/3/2019
Arsenic	7.9	1.1		mg/Kg-dry	10	8/31/2019
Barium	130	1.1		mg/Kg-dry	10	8/31/2019
Beryllium	1.1	0.53		mg/Kg-dry	10	8/31/2019
Cadmium	ND	0.53		mg/Kg-dry	10	8/31/2019
Calcium	9900	64		mg/Kg-dry	10	8/31/2019
Chromium	25	1.1		mg/Kg-dry	10	8/31/2019

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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-21-01 (0-5)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 10:10:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020A (SW3050B)</b>		Prep Date: 8/30/2019		Analyst: JG
Cobalt	12	1.1		mg/Kg-dry	10	8/31/2019
Copper	30	2.7		mg/Kg-dry	10	8/31/2019
Iron	23000	32		mg/Kg-dry	10	8/31/2019
Lead	38	0.53		mg/Kg-dry	10	8/31/2019
Magnesium	7200	32		mg/Kg-dry	10	8/31/2019
Manganese	360	1.1		mg/Kg-dry	10	8/31/2019
Nickel	33	1.1		mg/Kg-dry	10	8/31/2019
Potassium	1800	32		mg/Kg-dry	10	8/31/2019
Selenium	1.5	1.1		mg/Kg-dry	10	8/31/2019
Silver	ND	1.1		mg/Kg-dry	10	8/31/2019
Sodium	380	64		mg/Kg-dry	10	8/31/2019
Thallium	ND	1.1		mg/Kg-dry	10	8/31/2019
Vanadium	35	1.1		mg/Kg-dry	10	8/31/2019
Zinc	80	5.3		mg/Kg-dry	10	8/31/2019
<b>SPLP Metals by ICP/MS</b>		<b>SW1312/6020A (SW3005A)</b>		Prep Date: 8/29/2019		Analyst: MDT
Arsenic	ND	0.0040		mg/L	2	8/30/2019
Barium	0.027	0.020		mg/L	2	8/30/2019
Beryllium	ND	0.0020		mg/L	2	8/30/2019
Cadmium	ND	0.0020		mg/L	2	8/30/2019
Chromium	ND	0.016		mg/L	2	8/30/2019
Cobalt	ND	0.0040		mg/L	2	8/30/2019
Copper	ND	0.020		mg/L	2	8/30/2019
Iron	6.1	0.20		mg/L	2	8/30/2019
Lead	0.0067	0.0020		mg/L	2	8/30/2019
Manganese	0.041	0.0040		mg/L	2	8/30/2019
Nickel	0.0082	0.0080		mg/L	2	8/30/2019
Selenium	ND	0.0040		mg/L	2	8/30/2019
Silver	ND	0.0040		mg/L	2	8/30/2019
Zinc	0.020	0.020		mg/L	2	8/30/2019
<b>TCLP Metals by ICP/MS</b>		<b>SW1311/6020A (SW3005A)</b>		Prep Date: 8/30/2019		Analyst: JG
Arsenic	ND	0.010		mg/L	5	8/31/2019
Barium	0.41	0.010		mg/L	5	8/31/2019
Beryllium	ND	0.0050		mg/L	5	9/3/2019
Cadmium	ND	0.0050		mg/L	5	8/31/2019
Chromium	ND	0.070		mg/L	5	8/31/2019
Cobalt	ND	0.010		mg/L	5	8/31/2019
Copper	ND	0.025		mg/L	5	8/31/2019

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Date Reported: September 11, 2019

Date Printed: September 11, 2019

**ANALYTICAL RESULTS**

Client: Huff &amp; Huff, Inc.

Work Order: 19081187 Revision 0

Project: 81.0220509.59, IDOT, Palatine, IL

Lab ID: 19081187-006

Client Sample ID: 2171V2-21-01 (0-5)

Collection Date: 8/23/2019 10:10:00 AM

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020A (SW3005A)</b>		Prep Date: <b>8/30/2019</b>		Analyst: <b>JG</b>	
Iron	ND	0.50		mg/L	5	8/31/2019
Lead	ND	0.0075		mg/L	5	8/31/2019
Manganese	0.92	0.010		mg/L	5	8/31/2019
Nickel	ND	0.035		mg/L	5	8/31/2019
Selenium	ND	0.0050		mg/L	5	8/31/2019
Silver	ND	0.010		mg/L	5	8/31/2019
Zinc	ND	0.10		mg/L	5	8/31/2019
<b>TCLP Mercury</b>	<b>SW1311/7470A</b>		Prep Date: <b>8/30/2019</b>		Analyst: <b>LB</b>	
Mercury	ND	0.00020		mg/L	1	8/30/2019
<b>SPLP Mercury</b>	<b>SW1312/7470A</b>		Prep Date: <b>8/29/2019</b>		Analyst: <b>LB</b>	
Mercury	ND	0.00020		mg/L	1	8/30/2019
<b>Mercury</b>	<b>SW7471B</b>		Prep Date: <b>8/29/2019</b>		Analyst: <b>LB</b>	
Mercury	0.045	0.00022		mg/Kg-dry	1	8/29/2019
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: <b>8/28/2019</b>		Analyst: <b>EDB</b>	
pH	7.68			pH Units	1	8/28/2019
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: <b>9/3/2019</b>		Analyst: <b>RW</b>	
Percent Moisture	20.7	0.2	*	wt%	1	9/4/2019

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Date Reported: September 11, 2019

Date Printed: September 11, 2019

**ANALYTICAL RESULTS**

Client: Huff &amp; Huff, Inc.

Work Order: 19081187 Revision 0

Project: 81.0220509.59, IDOT, Palatine, IL

Lab ID: 19081187-003

Client Sample ID: 2171V2-35-01 (0-4)

Collection Date: 8/23/2019 9:45:00 AM

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: 8/27/2019		Analyst: CBG
Acetone	ND	0.083		mg/Kg-dry	1	9/2/2019
Benzene	ND	0.0055		mg/Kg-dry	1	9/2/2019
Bromodichloromethane	ND	0.0055		mg/Kg-dry	1	9/2/2019
Bromoform	ND	0.0055		mg/Kg-dry	1	9/2/2019
Bromomethane	ND	0.011		mg/Kg-dry	1	9/2/2019
2-Butanone	ND	0.083		mg/Kg-dry	1	9/2/2019
Carbon disulfide	ND	0.055		mg/Kg-dry	1	9/2/2019
Carbon tetrachloride	ND	0.0055		mg/Kg-dry	1	9/2/2019
Chlorobenzene	ND	0.0055		mg/Kg-dry	1	9/2/2019
Chloroethane	ND	0.011		mg/Kg-dry	1	9/2/2019
Chloroform	ND	0.0055		mg/Kg-dry	1	9/2/2019
Chloromethane	ND	0.011		mg/Kg-dry	1	9/2/2019
Dibromochloromethane	ND	0.0055		mg/Kg-dry	1	9/2/2019
1,1-Dichloroethane	ND	0.0055		mg/Kg-dry	1	9/2/2019
1,2-Dichloroethane	ND	0.0055		mg/Kg-dry	1	9/2/2019
1,1-Dichloroethene	ND	0.0055		mg/Kg-dry	1	9/2/2019
cis-1,2-Dichloroethene	ND	0.0055		mg/Kg-dry	1	9/2/2019
trans-1,2-Dichloroethene	ND	0.0055		mg/Kg-dry	1	9/2/2019
1,2-Dichloropropane	ND	0.0055		mg/Kg-dry	1	9/2/2019
cis-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	9/2/2019
trans-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	9/2/2019
Ethylbenzene	ND	0.0055		mg/Kg-dry	1	9/2/2019
2-Hexanone	ND	0.023		mg/Kg-dry	1	9/2/2019
4-Methyl-2-pentanone	ND	0.023		mg/Kg-dry	1	9/2/2019
Methylene chloride	ND	0.011		mg/Kg-dry	1	9/2/2019
Methyl tert-butyl ether	ND	0.0055		mg/Kg-dry	1	9/2/2019
Styrene	ND	0.0055		mg/Kg-dry	1	9/2/2019
1,1,2,2-Tetrachloroethane	ND	0.0055		mg/Kg-dry	1	9/2/2019
Tetrachloroethene	ND	0.0055		mg/Kg-dry	1	9/2/2019
Toluene	ND	0.0055		mg/Kg-dry	1	9/2/2019
1,1,1-Trichloroethane	ND	0.0055		mg/Kg-dry	1	9/2/2019
1,1,2-Trichloroethane	ND	0.0055		mg/Kg-dry	1	9/2/2019
Trichloroethene	ND	0.0055		mg/Kg-dry	1	9/2/2019
Vinyl chloride	ND	0.0055		mg/Kg-dry	1	9/2/2019
Xylenes, Total	ND	0.016		mg/Kg-dry	1	9/2/2019
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270D (SW3550B)</b>		Prep Date: 8/28/2019		Analyst: SJC
Acenaphthene	ND	0.041		mg/Kg-dry	1	8/29/2019
Acenaphthylene	ND	0.041		mg/Kg-dry	1	8/29/2019

**Qualifiers:**  
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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-35-01 (0-4)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 9:45:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270D (SW3550B)</b>					Prep Date: 8/28/2019 Analyst: SJC
Aniline	ND	0.41		mg/Kg-dry	1	8/29/2019
Anthracene	ND	0.041		mg/Kg-dry	1	8/29/2019
Benz(a)anthracene	ND	0.041		mg/Kg-dry	1	8/29/2019
Benzidine	ND	0.41		mg/Kg-dry	1	8/29/2019
Benzo(a)pyrene	ND	0.041		mg/Kg-dry	1	8/29/2019
Benzo(b)fluoranthene	ND	0.041		mg/Kg-dry	1	8/29/2019
Benzo(g,h,i)perylene	ND	0.041		mg/Kg-dry	1	8/29/2019
Benzo(k)fluoranthene	ND	0.041		mg/Kg-dry	1	8/29/2019
Benzoic acid	ND	1.0		mg/Kg-dry	1	8/29/2019
Benzyl alcohol	ND	0.21		mg/Kg-dry	1	8/29/2019
Bis(2-chloroethoxy)methane	ND	0.21		mg/Kg-dry	1	8/29/2019
Bis(2-chloroethyl)ether	ND	0.21		mg/Kg-dry	1	8/29/2019
Bis(2-ethylhexyl)phthalate	ND	1.0		mg/Kg-dry	1	8/29/2019
4-Bromophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	8/29/2019
Butyl benzyl phthalate	ND	0.21		mg/Kg-dry	1	8/29/2019
Carbazole	ND	0.21		mg/Kg-dry	1	8/29/2019
4-Chloroaniline	ND	0.21		mg/Kg-dry	1	8/29/2019
4-Chloro-3-methylphenol	ND	0.41		mg/Kg-dry	1	8/29/2019
2-Chloronaphthalene	ND	0.21		mg/Kg-dry	1	8/29/2019
2-Chlorophenol	ND	0.21		mg/Kg-dry	1	8/29/2019
4-Chlorophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	8/29/2019
Chrysene	ND	0.041		mg/Kg-dry	1	8/29/2019
Dibenz(a,h)anthracene	ND	0.041		mg/Kg-dry	1	8/29/2019
Dibenzofuran	ND	0.21		mg/Kg-dry	1	8/29/2019
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	8/29/2019
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	8/29/2019
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	8/29/2019
3,3'-Dichlorobenzidine	ND	0.21		mg/Kg-dry	1	8/29/2019
2,4-Dichlorophenol	ND	0.21		mg/Kg-dry	1	8/29/2019
Diethyl phthalate	ND	0.21		mg/Kg-dry	1	8/29/2019
2,4-Dimethylphenol	ND	0.21		mg/Kg-dry	1	8/29/2019
Dimethyl phthalate	ND	0.21		mg/Kg-dry	1	8/29/2019
4,6-Dinitro-2-methylphenol	ND	0.41		mg/Kg-dry	1	8/29/2019
2,4-Dinitrophenol	ND	1.0		mg/Kg-dry	1	8/29/2019
2,4-Dinitrotoluene	ND	0.041		mg/Kg-dry	1	8/29/2019
2,6-Dinitrotoluene	ND	0.041		mg/Kg-dry	1	8/29/2019
Di-n-butyl phthalate	ND	0.21		mg/Kg-dry	1	8/29/2019
Di-n-octyl phthalate	ND	0.21		mg/Kg-dry	1	8/29/2019

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-35-01 (0-4)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 9:45:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270D (SW3550B)				Prep Date: 8/28/2019	Analyst: SJC
Fluoranthene	ND	0.041		mg/Kg-dry	1	8/29/2019
Fluorene	ND	0.041		mg/Kg-dry	1	8/29/2019
Hexachlorobenzene	ND	0.21		mg/Kg-dry	1	8/29/2019
Hexachlorobutadiene	ND	0.21		mg/Kg-dry	1	8/29/2019
Hexachlorocyclopentadiene	ND	0.21		mg/Kg-dry	1	8/29/2019
Hexachloroethane	ND	0.21		mg/Kg-dry	1	8/29/2019
Indeno(1,2,3-cd)pyrene	ND	0.041		mg/Kg-dry	1	8/29/2019
Isophorone	ND	0.21		mg/Kg-dry	1	8/29/2019
2-Methylnaphthalene	ND	0.21		mg/Kg-dry	1	8/29/2019
2-Methylphenol	ND	0.21		mg/Kg-dry	1	8/29/2019
4-Methylphenol	ND	0.21		mg/Kg-dry	1	8/29/2019
Naphthalene	ND	0.041		mg/Kg-dry	1	8/29/2019
2-Nitroaniline	ND	0.21		mg/Kg-dry	1	8/29/2019
3-Nitroaniline	ND	0.21		mg/Kg-dry	1	8/29/2019
4-Nitroaniline	ND	0.21		mg/Kg-dry	1	8/29/2019
2-Nitrophenol	ND	0.21		mg/Kg-dry	1	8/29/2019
4-Nitrophenol	ND	0.41		mg/Kg-dry	1	8/29/2019
Nitrobenzene	ND	0.041		mg/Kg-dry	1	8/29/2019
N-Nitrosodi-n-propylamine	ND	0.041		mg/Kg-dry	1	8/29/2019
N-Nitrosodimethylamine	ND	0.21		mg/Kg-dry	1	8/29/2019
N-Nitrosodiphenylamine	ND	0.041		mg/Kg-dry	1	8/29/2019
2, 2'-oxybis(1-Chloropropane)	ND	0.21		mg/Kg-dry	1	8/29/2019
Pentachlorophenol	ND	0.041		mg/Kg-dry	1	8/29/2019
Phenanthrene	ND	0.041		mg/Kg-dry	1	8/29/2019
Phenol	ND	0.21		mg/Kg-dry	1	8/29/2019
Pyrene	ND	0.041		mg/Kg-dry	1	8/29/2019
Pyridine	ND	0.83		mg/Kg-dry	1	8/29/2019
1,2,4-Trichlorobenzene	ND	0.21		mg/Kg-dry	1	8/29/2019
2,4,5-Trichlorophenol	ND	0.21		mg/Kg-dry	1	8/29/2019
2,4,6-Trichlorophenol	ND	0.21		mg/Kg-dry	1	8/29/2019

Metals by ICP/MS	SW6020A (SW3050B)				Prep Date: 8/30/2019	Analyst: JG
Antimony	ND	2.2		mg/Kg-dry	10	9/3/2019
Arsenic	11	1.1		mg/Kg-dry	10	8/31/2019
Barium	160	1.1		mg/Kg-dry	10	8/31/2019
Beryllium	1.0	0.55		mg/Kg-dry	10	8/31/2019
Cadmium	ND	0.55		mg/Kg-dry	10	8/31/2019
Calcium	5600	66		mg/Kg-dry	10	8/31/2019
Chromium	24	1.1		mg/Kg-dry	10	8/31/2019

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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-35-01 (0-4)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 9:45:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020A (SW3050B)</b>		Prep Date: 8/30/2019		Analyst: JG
Cobalt	18	1.1		mg/Kg-dry	10	8/31/2019
Copper	28	2.7		mg/Kg-dry	10	8/31/2019
Iron	27000	33		mg/Kg-dry	10	8/31/2019
Lead	28	0.55		mg/Kg-dry	10	8/31/2019
Magnesium	3900	33		mg/Kg-dry	10	8/31/2019
Manganese	1600	1.1		mg/Kg-dry	10	8/31/2019
Nickel	28	1.1		mg/Kg-dry	10	8/31/2019
Potassium	2100	33		mg/Kg-dry	10	8/31/2019
Selenium	1.6	1.1		mg/Kg-dry	10	8/31/2019
Silver	ND	1.1		mg/Kg-dry	10	8/31/2019
Sodium	2200	66		mg/Kg-dry	10	8/31/2019
Thallium	ND	1.1		mg/Kg-dry	10	8/31/2019
Vanadium	35	1.1		mg/Kg-dry	10	8/31/2019
Zinc	78	5.5		mg/Kg-dry	10	8/31/2019
<b>SPLP Metals by ICP/MS</b>		<b>SW1312/6020A (SW3005A)</b>		Prep Date: 8/29/2019		Analyst: MDT
Arsenic	0.0065	0.0040		mg/L	2	8/30/2019
Barium	0.078	0.020		mg/L	2	8/30/2019
Beryllium	ND	0.0020		mg/L	2	8/30/2019
Cadmium	ND	0.0020		mg/L	2	8/30/2019
Chromium	ND	0.016		mg/L	2	8/30/2019
Cobalt	ND	0.0040		mg/L	2	8/30/2019
Copper	0.021	0.020		mg/L	2	8/30/2019
Iron	3.7	0.20		mg/L	2	8/30/2019
Lead	0.013	0.0020		mg/L	2	8/30/2019
Manganese	0.12	0.0040		mg/L	2	8/30/2019
Nickel	0.012	0.0080		mg/L	2	8/30/2019
Selenium	ND	0.0040		mg/L	2	8/30/2019
Silver	ND	0.0040		mg/L	2	8/30/2019
Zinc	0.022	0.020		mg/L	2	8/30/2019
<b>TCLP Metals by ICP/MS</b>		<b>SW1311/6020A (SW3005A)</b>		Prep Date: 8/30/2019		Analyst: JG
Arsenic	ND	0.010		mg/L	5	8/31/2019
Barium	0.30	0.010		mg/L	5	8/31/2019
Beryllium	ND	0.0050		mg/L	5	9/3/2019
Cadmium	ND	0.0050		mg/L	5	8/31/2019
Chromium	ND	0.070		mg/L	5	8/31/2019
Cobalt	ND	0.010		mg/L	5	8/31/2019
Copper	ND	0.025		mg/L	5	8/31/2019

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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff & Huff, Inc.  
 Work Order: 19081187 Revision 0  
 Project: 81.0220509.59, IDOT, Palatine, IL  
 Lab ID: 19081187-003

Client Sample ID: 2171V2-35-01 (0-4)  
 Collection Date: 8/23/2019 9:45:00 AM  
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020A (SW3005A)</b>		Prep Date: <b>8/30/2019</b>		Analyst: <b>JG</b>	
Iron	0.99	0.50		mg/L	5	8/31/2019
Lead	ND	0.0075		mg/L	5	8/31/2019
Manganese	1.8	0.010		mg/L	5	8/31/2019
Nickel	ND	0.035		mg/L	5	8/31/2019
Selenium	ND	0.0050		mg/L	5	8/31/2019
Silver	ND	0.010		mg/L	5	8/31/2019
Zinc	ND	0.10		mg/L	5	8/31/2019
<b>TCLP Mercury</b>	<b>SW1311/7470A</b>		Prep Date: <b>8/30/2019</b>		Analyst: <b>LB</b>	
Mercury	ND	0.00020		mg/L	1	8/30/2019
<b>SPLP Mercury</b>	<b>SW1312/7470A</b>		Prep Date: <b>8/29/2019</b>		Analyst: <b>LB</b>	
Mercury	ND	0.00020		mg/L	1	8/30/2019
<b>Mercury</b>	<b>SW7471B</b>		Prep Date: <b>8/29/2019</b>		Analyst: <b>LB</b>	
Mercury	0.030	0.019		mg/Kg-dry	1	8/29/2019
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: <b>8/28/2019</b>		Analyst: <b>EDB</b>	
pH	7.67			pH Units	1	8/28/2019
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: <b>9/3/2019</b>		Analyst: <b>RW</b>	
Percent Moisture	20.4	0.2	*	wt%	1	9/4/2019

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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-42-01 (0-4)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 9:31:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: <b>8/27/2019</b>		Analyst: <b>CBG</b>
Acetone	ND	0.071		mg/Kg-dry	1	8/31/2019
Benzene	ND	0.0048		mg/Kg-dry	1	8/31/2019
Bromodichloromethane	ND	0.0048		mg/Kg-dry	1	8/31/2019
Bromoform	ND	0.0048		mg/Kg-dry	1	8/31/2019
Bromomethane	ND	0.0095		mg/Kg-dry	1	8/31/2019
2-Butanone	ND	0.071		mg/Kg-dry	1	8/31/2019
Carbon disulfide	ND	0.048		mg/Kg-dry	1	8/31/2019
Carbon tetrachloride	ND	0.0048		mg/Kg-dry	1	8/31/2019
Chlorobenzene	ND	0.0048		mg/Kg-dry	1	8/31/2019
Chloroethane	ND	0.0095		mg/Kg-dry	1	8/31/2019
Chloroform	ND	0.0048		mg/Kg-dry	1	8/31/2019
Chloromethane	ND	0.0095		mg/Kg-dry	1	8/31/2019
Dibromochloromethane	ND	0.0048		mg/Kg-dry	1	8/31/2019
1,1-Dichloroethane	ND	0.0048		mg/Kg-dry	1	8/31/2019
1,2-Dichloroethane	ND	0.0048		mg/Kg-dry	1	8/31/2019
1,1-Dichloroethene	ND	0.0048		mg/Kg-dry	1	8/31/2019
cis-1,2-Dichloroethene	ND	0.0048		mg/Kg-dry	1	8/31/2019
trans-1,2-Dichloroethene	ND	0.0048		mg/Kg-dry	1	8/31/2019
1,2-Dichloropropane	ND	0.0048		mg/Kg-dry	1	8/31/2019
cis-1,3-Dichloropropene	ND	0.0019		mg/Kg-dry	1	8/31/2019
trans-1,3-Dichloropropene	ND	0.0019		mg/Kg-dry	1	8/31/2019
Ethylbenzene	ND	0.0048		mg/Kg-dry	1	8/31/2019
2-Hexanone	ND	0.019		mg/Kg-dry	1	8/31/2019
4-Methyl-2-pentanone	ND	0.019		mg/Kg-dry	1	8/31/2019
Methylene chloride	ND	0.0095		mg/Kg-dry	1	8/31/2019
Methyl tert-butyl ether	ND	0.0048		mg/Kg-dry	1	8/31/2019
Styrene	ND	0.0048		mg/Kg-dry	1	8/31/2019
1,1,2,2-Tetrachloroethane	ND	0.0048		mg/Kg-dry	1	8/31/2019
Tetrachloroethene	ND	0.0048		mg/Kg-dry	1	8/31/2019
Toluene	ND	0.0048		mg/Kg-dry	1	8/31/2019
1,1,1-Trichloroethane	ND	0.0048		mg/Kg-dry	1	8/31/2019
1,1,2-Trichloroethane	ND	0.0048		mg/Kg-dry	1	8/31/2019
Trichloroethene	ND	0.0048		mg/Kg-dry	1	8/31/2019
Vinyl chloride	ND	0.0048		mg/Kg-dry	1	8/31/2019
Xylenes, Total	ND	0.014		mg/Kg-dry	1	8/31/2019
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270D (SW3550B)</b>		Prep Date: <b>8/28/2019</b>		Analyst: <b>SJC</b>
Acenaphthene	ND	0.039		mg/Kg-dry	1	8/29/2019
Acenaphthylene	ND	0.039		mg/Kg-dry	1	8/29/2019

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Date Reported: September 11, 2019

Date Printed: September 11, 2019

**ANALYTICAL RESULTS**

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-42-01 (0-4)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 9:31:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270D (SW3550B)</b>					Prep Date: 8/28/2019 Analyst: SJC
Aniline	ND	0.39		mg/Kg-dry	1	8/29/2019
Anthracene	ND	0.039		mg/Kg-dry	1	8/29/2019
Benz(a)anthracene	ND	0.039		mg/Kg-dry	1	8/29/2019
Benzidine	ND	0.39		mg/Kg-dry	1	8/29/2019
Benzo(a)pyrene	ND	0.039		mg/Kg-dry	1	8/29/2019
Benzo(b)fluoranthene	ND	0.039		mg/Kg-dry	1	8/29/2019
Benzo(g,h,i)perylene	ND	0.039		mg/Kg-dry	1	8/29/2019
Benzo(k)fluoranthene	ND	0.039		mg/Kg-dry	1	8/29/2019
Benzoic acid	ND	0.97		mg/Kg-dry	1	8/29/2019
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	8/29/2019
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	8/29/2019
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	8/29/2019
Bis(2-ethylhexyl)phthalate	ND	0.97		mg/Kg-dry	1	8/29/2019
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/29/2019
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2019
Carbazole	ND	0.20		mg/Kg-dry	1	8/29/2019
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	8/29/2019
4-Chloro-3-methylphenol	ND	0.39		mg/Kg-dry	1	8/29/2019
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	8/29/2019
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	8/29/2019
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/29/2019
Chrysene	ND	0.039		mg/Kg-dry	1	8/29/2019
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	8/29/2019
Dibenzofuran	ND	0.20		mg/Kg-dry	1	8/29/2019
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2019
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2019
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2019
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	8/29/2019
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	8/29/2019
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2019
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	8/29/2019
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2019
4,6-Dinitro-2-methylphenol	ND	0.39		mg/Kg-dry	1	8/29/2019
2,4-Dinitrophenol	ND	0.97		mg/Kg-dry	1	8/29/2019
2,4-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	8/29/2019
2,6-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	8/29/2019
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2019
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2019

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
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 HT - Sample received past holding time  
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 S - Spike Recovery outside accepted recovery limits  
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**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 11, 2019

Date Printed: September 11, 2019

**ANALYTICAL RESULTS**

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-42-01 (0-4)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 9:31:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270D (SW3550B)				Prep Date: 8/28/2019	Analyst: SJC
Fluoranthene	ND	0.039		mg/Kg-dry	1	8/29/2019
Fluorene	ND	0.039		mg/Kg-dry	1	8/29/2019
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2019
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	8/29/2019
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	8/29/2019
Hexachloroethane	ND	0.20		mg/Kg-dry	1	8/29/2019
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	1	8/29/2019
Isophorone	ND	0.20		mg/Kg-dry	1	8/29/2019
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	8/29/2019
2-Methylphenol	ND	0.20		mg/Kg-dry	1	8/29/2019
4-Methylphenol	ND	0.20		mg/Kg-dry	1	8/29/2019
Naphthalene	ND	0.039		mg/Kg-dry	1	8/29/2019
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/29/2019
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/29/2019
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/29/2019
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	8/29/2019
4-Nitrophenol	ND	0.39		mg/Kg-dry	1	8/29/2019
Nitrobenzene	ND	0.039		mg/Kg-dry	1	8/29/2019
N-Nitrosodi-n-propylamine	ND	0.039		mg/Kg-dry	1	8/29/2019
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	8/29/2019
N-Nitrosodiphenylamine	ND	0.039		mg/Kg-dry	1	8/29/2019
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	8/29/2019
Pentachlorophenol	ND	0.039		mg/Kg-dry	1	8/29/2019
Phenanthrene	ND	0.039		mg/Kg-dry	1	8/29/2019
Phenol	ND	0.20		mg/Kg-dry	1	8/29/2019
Pyrene	ND	0.039		mg/Kg-dry	1	8/29/2019
Pyridine	ND	0.78		mg/Kg-dry	1	8/29/2019
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2019
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/29/2019
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/29/2019

Metals by ICP/MS	SW6020A (SW3050B)				Prep Date: 8/30/2019	Analyst: JG
Antimony	ND	2.0		mg/Kg-dry	10	9/3/2019
Arsenic	11	0.98		mg/Kg-dry	10	8/31/2019
Barium	76	0.98		mg/Kg-dry	10	8/31/2019
Beryllium	0.90	0.49		mg/Kg-dry	10	8/31/2019
Cadmium	ND	0.49		mg/Kg-dry	10	8/31/2019
Calcium	22000	59		mg/Kg-dry	10	8/31/2019
Chromium	22	0.98		mg/Kg-dry	10	8/31/2019

**Qualifiers:**  
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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171V2-42-01 (0-4)

Work Order: 19081187 Revision 0

Collection Date: 8/23/2019 9:31:00 AM

Project: 81.0220509.59, IDOT, Palatine, IL

Matrix: Soil

Lab ID: 19081187-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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**Metals by ICP/MS****SW6020A (SW3050B)**

Prep Date: 8/30/2019

Analyst: JG

Cobalt	14	0.98		mg/Kg-dry	10	8/31/2019
Copper	30	2.5		mg/Kg-dry	10	8/31/2019
Iron	28000	29		mg/Kg-dry	10	8/31/2019
Lead	29	0.49		mg/Kg-dry	10	8/31/2019
Magnesium	14000	29		mg/Kg-dry	10	8/31/2019
Manganese	900	0.98		mg/Kg-dry	10	8/31/2019
Nickel	34	0.98		mg/Kg-dry	10	8/31/2019
Potassium	1600	29		mg/Kg-dry	10	8/31/2019
Selenium	1.3	0.98		mg/Kg-dry	10	8/31/2019
Silver	ND	0.98		mg/Kg-dry	10	8/31/2019
Sodium	2200	59		mg/Kg-dry	10	8/31/2019
Thallium	ND	0.98		mg/Kg-dry	10	8/31/2019
Vanadium	31	0.98		mg/Kg-dry	10	8/31/2019
Zinc	64	4.9		mg/Kg-dry	10	8/31/2019

**SPLP Metals by ICP/MS****SW1312/6020A (SW3005A)**

Prep Date: 8/29/2019

Analyst: MDT

Arsenic	ND	0.0040		mg/L	2	8/30/2019
Barium	0.063	0.020		mg/L	2	8/30/2019
Beryllium	ND	0.0020		mg/L	2	8/30/2019
Cadmium	ND	0.0020		mg/L	2	8/30/2019
Chromium	ND	0.016		mg/L	2	8/30/2019
Cobalt	ND	0.0040		mg/L	2	8/30/2019
Copper	0.039	0.020		mg/L	2	8/30/2019
Iron	2.6	0.20		mg/L	2	8/30/2019
Lead	0.0084	0.0020		mg/L	2	8/30/2019
Manganese	0.055	0.0040		mg/L	2	8/30/2019
Nickel	0.0090	0.0080		mg/L	2	8/30/2019
Selenium	ND	0.0040		mg/L	2	8/30/2019
Silver	ND	0.0040		mg/L	2	8/30/2019
Zinc	0.035	0.020		mg/L	2	8/30/2019

**TCLP Metals by ICP/MS****SW1311/6020A (SW3005A)**

Prep Date: 8/30/2019

Analyst: JG

Arsenic	ND	0.010		mg/L	5	8/31/2019
Barium	0.49	0.010		mg/L	5	8/31/2019
Beryllium	ND	0.0050		mg/L	5	8/31/2019
Cadmium	ND	0.0050		mg/L	5	8/31/2019
Chromium	ND	0.070		mg/L	5	8/31/2019
Cobalt	ND	0.010		mg/L	5	8/31/2019
Copper	ND	0.025		mg/L	5	8/31/2019

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
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Date Reported: September 11, 2019

**ANALYTICAL RESULTS**

Date Printed: September 11, 2019

Client: Huff & Huff, Inc.  
 Work Order: 19081187 Revision 0  
 Project: 81.0220509.59, IDOT, Palatine, IL  
 Lab ID: 19081187-001

Client Sample ID: 2171V2-42-01 (0-4)  
 Collection Date: 8/23/2019 9:31:00 AM  
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020A (SW3005A)</b>		Prep Date: <b>8/30/2019</b>		Analyst: <b>JG</b>	
Iron	ND	0.50		mg/L	5	8/31/2019
Lead	ND	0.0075		mg/L	5	8/31/2019
Manganese	2.0	0.010		mg/L	5	8/31/2019
Nickel	ND	0.035		mg/L	5	8/31/2019
Selenium	ND	0.0050		mg/L	5	8/31/2019
Silver	ND	0.010		mg/L	5	8/31/2019
Zinc	ND	0.10		mg/L	5	8/31/2019
<b>TCLP Mercury</b>	<b>SW1311/7470A</b>		Prep Date: <b>8/30/2019</b>		Analyst: <b>LB</b>	
Mercury	ND	0.00020		mg/L	1	8/30/2019
<b>SPLP Mercury</b>	<b>SW1312/7470A</b>		Prep Date: <b>8/29/2019</b>		Analyst: <b>LB</b>	
Mercury	ND	0.00020		mg/L	1	8/30/2019
<b>Mercury</b>	<b>SW7471B</b>		Prep Date: <b>8/29/2019</b>		Analyst: <b>LB</b>	
Mercury	0.028	0.023		mg/Kg-dry	1	8/29/2019
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: <b>8/28/2019</b>		Analyst: <b>EDB</b>	
pH	8.36			pH Units	1	8/28/2019
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: <b>9/3/2019</b>		Analyst: <b>RW</b>	
Percent Moisture	14.6	0.2	*	wt%	1	9/4/2019

**Qualifiers:** ND - Not Detected at the Reporting Limit  
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Date Reported: January 30, 2017

**ANALYTICAL RESULTS**

Date Printed: January 30, 2017

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171v-57-12 0-3

Work Order: 17010623 Revision 0

Collection Date: 1/19/2017 1:20:00 PM

Project: 81.0220509.02, 2171v Duede, Palatine, IL

Matrix: Soil

Lab ID: 17010623-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: 1/23/2017		Analyst: PS
Acetone	ND	0.10		mg/Kg-dry	1	1/30/2017
Benzene	ND	0.0069		mg/Kg-dry	1	1/30/2017
Bromodichloromethane	ND	0.0069		mg/Kg-dry	1	1/30/2017
Bromoform	ND	0.0069		mg/Kg-dry	1	1/30/2017
Bromomethane	ND	0.014		mg/Kg-dry	1	1/30/2017
2-Butanone	ND	0.10		mg/Kg-dry	1	1/30/2017
Carbon disulfide	ND	0.069		mg/Kg-dry	1	1/30/2017
Carbon tetrachloride	ND	0.0069		mg/Kg-dry	1	1/30/2017
Chlorobenzene	ND	0.0069		mg/Kg-dry	1	1/30/2017
Chloroethane	ND	0.014		mg/Kg-dry	1	1/30/2017
Chloroform	ND	0.0069		mg/Kg-dry	1	1/30/2017
Chloromethane	ND	0.014		mg/Kg-dry	1	1/30/2017
Dibromochloromethane	ND	0.0069		mg/Kg-dry	1	1/30/2017
1,1-Dichloroethane	ND	0.0069		mg/Kg-dry	1	1/30/2017
1,2-Dichloroethane	ND	0.0069		mg/Kg-dry	1	1/30/2017
1,1-Dichloroethene	ND	0.0069		mg/Kg-dry	1	1/30/2017
cis-1,2-Dichloroethene	ND	0.0069		mg/Kg-dry	1	1/30/2017
trans-1,2-Dichloroethene	ND	0.0069		mg/Kg-dry	1	1/30/2017
1,2-Dichloropropane	ND	0.0069		mg/Kg-dry	1	1/30/2017
cis-1,3-Dichloropropene	ND	0.0028		mg/Kg-dry	1	1/30/2017
trans-1,3-Dichloropropene	ND	0.0028		mg/Kg-dry	1	1/30/2017
Ethylbenzene	ND	0.0069		mg/Kg-dry	1	1/30/2017
2-Hexanone	ND	0.028		mg/Kg-dry	1	1/30/2017
4-Methyl-2-pentanone	ND	0.028		mg/Kg-dry	1	1/30/2017
Methylene chloride	ND	0.014		mg/Kg-dry	1	1/30/2017
Methyl tert-butyl ether	ND	0.0069		mg/Kg-dry	1	1/30/2017
Styrene	ND	0.0069		mg/Kg-dry	1	1/30/2017
1,1,2,2-Tetrachloroethane	ND	0.0069		mg/Kg-dry	1	1/30/2017
Tetrachloroethene	ND	0.0069		mg/Kg-dry	1	1/30/2017
Toluene	ND	0.0069		mg/Kg-dry	1	1/30/2017
1,1,1-Trichloroethane	ND	0.0069		mg/Kg-dry	1	1/30/2017
1,1,2-Trichloroethane	ND	0.0069		mg/Kg-dry	1	1/30/2017
Trichloroethene	ND	0.0069		mg/Kg-dry	1	1/30/2017
Vinyl chloride	ND	0.0069		mg/Kg-dry	1	1/30/2017
Xylenes, Total	ND	0.021		mg/Kg-dry	1	1/30/2017
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 1/26/2017		Analyst: DM
Acenaphthene	ND	0.039		mg/Kg-dry	1	1/26/2017
Acenaphthylene	ND	0.039		mg/Kg-dry	1	1/26/2017

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Date Reported: January 30, 2017

**ANALYTICAL RESULTS**

Date Printed: January 30, 2017

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171v-57-12 0-3

Work Order: 17010623 Revision 0

Collection Date: 1/19/2017 1:20:00 PM

Project: 81.0220509.02, 2171v Duede, Palatine, IL

Matrix: Soil

Lab ID: 17010623-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270C (SW3550B)</b>		Prep Date: 1/26/2017		Analyst: DM	
Aniline	ND	0.39		mg/Kg-dry	1	1/26/2017
Anthracene	ND	0.039		mg/Kg-dry	1	1/26/2017
Benz(a)anthracene	ND	0.039		mg/Kg-dry	1	1/26/2017
Benztidine	ND	0.39		mg/Kg-dry	1	1/26/2017
Benzo(a)pyrene	ND	0.039		mg/Kg-dry	1	1/26/2017
Benzo(b)fluoranthene	ND	0.039		mg/Kg-dry	1	1/26/2017
Benzo(g,h,i)perylene	ND	0.039		mg/Kg-dry	1	1/26/2017
Benzo(k)fluoranthene	ND	0.039		mg/Kg-dry	1	1/26/2017
Benzoic acid	ND	0.98		mg/Kg-dry	1	1/26/2017
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	1/26/2017
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	1/26/2017
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	1/26/2017
Bis(2-ethylhexyl)phthalate	ND	0.98		mg/Kg-dry	1	1/26/2017
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	1/26/2017
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	1/26/2017
Carbazole	ND	0.20		mg/Kg-dry	1	1/26/2017
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	1/26/2017
4-Chloro-3-methylphenol	ND	0.39		mg/Kg-dry	1	1/26/2017
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	1/26/2017
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	1/26/2017
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	1/26/2017
Chrysene	ND	0.039		mg/Kg-dry	1	1/26/2017
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	1/26/2017
Dibenzofuran	ND	0.20		mg/Kg-dry	1	1/26/2017
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	1/26/2017
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	1/26/2017
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	1/26/2017
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	1/26/2017
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	1/26/2017
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	1/26/2017
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	1/26/2017
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	1/26/2017
4,6-Dinitro-2-methylphenol	ND	0.39		mg/Kg-dry	1	1/26/2017
2,4-Dinitrophenol	ND	0.98		mg/Kg-dry	1	1/26/2017
2,4-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	1/26/2017
2,6-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	1/26/2017
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	1/26/2017
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	1/26/2017

**Qualifiers:**

ND - Not Detected at the Reporting Limit

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\* - Non-accredited parameter

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S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

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**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: January 30, 2017

**ANALYTICAL RESULTS**

Date Printed: January 30, 2017

Client: Huff &amp; Huff, Inc.

Client Sample ID: 2171v-57-12 0-3

Work Order: 17010623 Revision 0

Collection Date: 1/19/2017 1:20:00 PM

Project: 81.0220509.02, 2171v Duede, Palatine, IL

Matrix: Soil

Lab ID: 17010623-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 1/26/2017		Analyst: DM	
Fluoranthene	ND	0.039		mg/Kg-dry	1	1/26/2017
Fluorene	ND	0.039		mg/Kg-dry	1	1/26/2017
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	1/26/2017
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	1/26/2017
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	1/26/2017
Hexachloroethane	ND	0.20		mg/Kg-dry	1	1/26/2017
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	1	1/26/2017
Isophorone	ND	0.20		mg/Kg-dry	1	1/26/2017
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	1/26/2017
2-Methylphenol	ND	0.20		mg/Kg-dry	1	1/26/2017
4-Methylphenol	ND	0.20		mg/Kg-dry	1	1/26/2017
Naphthalene	ND	0.039		mg/Kg-dry	1	1/26/2017
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	1/26/2017
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	1/26/2017
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	1/26/2017
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	1/26/2017
4-Nitrophenol	ND	0.39		mg/Kg-dry	1	1/26/2017
Nitrobenzene	ND	0.039		mg/Kg-dry	1	1/26/2017
N-Nitrosodi-n-propylamine	ND	0.039		mg/Kg-dry	1	1/26/2017
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	1/26/2017
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	1/26/2017
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	1/26/2017
Pentachlorophenol	ND	0.079		mg/Kg-dry	1	1/26/2017
Phenanthrene	ND	0.039		mg/Kg-dry	1	1/26/2017
Phenol	ND	0.20		mg/Kg-dry	1	1/26/2017
Pyrene	ND	0.039		mg/Kg-dry	1	1/26/2017
Pyridine	ND	0.79		mg/Kg-dry	1	1/26/2017
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	1/26/2017
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	1/26/2017
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	1/26/2017

Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 1/25/2017		Analyst: JG	
Aluminum	11000	21		mg/Kg-dry	10	1/26/2017
Antimony	ND	2.1		mg/Kg-dry	10	1/26/2017
Arsenic	9.5	1.1		mg/Kg-dry	10	1/26/2017
Barium	66	1.1		mg/Kg-dry	10	1/26/2017
Beryllium	0.73	0.53		mg/Kg-dry	10	1/26/2017
Cadmium	ND	0.53		mg/Kg-dry	10	1/26/2017
Calcium	4600	63		mg/Kg-dry	10	1/26/2017

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
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	* - Non-accredited parameter	H - Holding time exceeded

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Date Reported: January 30, 2017

**ANALYTICAL RESULTS**

Date Printed: January 30, 2017

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Client Sample ID: 2171v-57-12 0-3

Work Order: 17010623 Revision 0

Collection Date: 1/19/2017 1:20:00 PM

Project: 81.0220509.02, 2171v Duede, Palatine, IL

Matrix: Soil

Lab ID: 17010623-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>		Prep Date: 1/25/2017		Analyst: JG	
Chromium	17	1.1		mg/Kg-dry	10	1/26/2017
Cobalt	18	1.1		mg/Kg-dry	10	1/26/2017
Copper	22	2.6		mg/Kg-dry	10	1/26/2017
Iron	22000	32		mg/Kg-dry	10	1/26/2017
Lead	31	0.53		mg/Kg-dry	10	1/26/2017
Magnesium	4600	32		mg/Kg-dry	10	1/26/2017
Manganese	740	1.1		mg/Kg-dry	10	1/26/2017
Nickel	24	1.1		mg/Kg-dry	10	1/26/2017
Potassium	1300	32		mg/Kg-dry	10	1/26/2017
Selenium	1.3	1.1		mg/Kg-dry	10	1/26/2017
Silver	ND	1.1		mg/Kg-dry	10	1/26/2017
Sodium	930	63		mg/Kg-dry	10	1/26/2017
Thallium	ND	1.1		mg/Kg-dry	10	1/26/2017
Vanadium	21	1.1		mg/Kg-dry	10	1/26/2017
Zinc	56	5.3		mg/Kg-dry	10	1/26/2017
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>		Prep Date: 1/27/2017		Analyst: JG	
Arsenic	ND	0.010		mg/L	5	1/29/2017
Barium	0.34	0.050		mg/L	5	1/29/2017
Cadmium	ND	0.0050		mg/L	5	1/29/2017
Chromium	ND	0.010		mg/L	5	1/29/2017
Iron	ND	0.25		mg/L	5	1/29/2017
Lead	ND	0.0050		mg/L	5	1/29/2017
Manganese	1.0	0.010		mg/L	5	1/29/2017
Selenium	ND	0.010		mg/L	5	1/29/2017
Silver	ND	0.010		mg/L	5	1/29/2017
<b>TCLP Mercury</b>	<b>SW1311/7470A</b>		Prep Date: 1/26/2017		Analyst: LB	
Mercury	ND	0.00020		mg/L	1	1/27/2017
<b>Mercury</b>	<b>SW7471A</b>		Prep Date: 1/27/2017		Analyst: LB	
Mercury	0.033	0.022		mg/Kg-dry	1	1/27/2017
<b>Cyanide, Total</b>	<b>SW9012A</b>		Prep Date: 1/25/2017		Analyst: MD	
Cyanide	ND	0.30		mg/Kg-dry	1	1/26/2017
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: 1/27/2017		Analyst: VA	
pH	7.9			pH Units	1	1/27/2017
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: 1/24/2017		Analyst: JPF	
Percent Moisture	16.4	0.2	*	wt%	1	1/25/2017

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Huff & Huff, a Subsidiary of GZA