



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

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

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

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

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

I. Source Location Information

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

Project Name: FAI 57/I-57 at 167th Street btwn M.M. 346 and 347 Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
3404-5-02 (NW of interchange), 3404-5-06 (SE of interchange) and 3404-5-08 (SW of interchange)

City: Unincorporated State: IL Zip Code: 60477/60478

County: Cook Township: Bremen

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

Latitude: 41.587875 Longitude: -87.727752

(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 Site _____

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Dept. of Transportation, District 1

Name: Illinois Dept. of Transportation, District 1

Street Address: 201 W Center Court

Street Address: 201 W Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4101

Zip Code: 60196 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAI 57/I-57 at 167th Street btwn M.M. 346 and 347

Latitude: 41.587875 Longitude: -87.727752

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

Refer to Figure 4-1 in the Final PSI Report and borings 3404-5-02 (NW of interchange; 167th Street Sta 27+25, 50 Left), 3404-5-06 (SE of interchange; 167th Street Sta 30+00, 50 Right) and 3404-5-08 (SW of interchange; 167th Street Sta 25+50, 45 Right)

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

Refer to Tables 4-2 and 4-3 in the Final PSI Report for results summary and STAT Analysis Corporation report/work order #18030597. Site specific table of results is attached to this form.

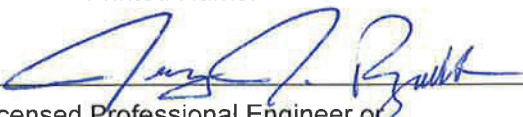
IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

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:

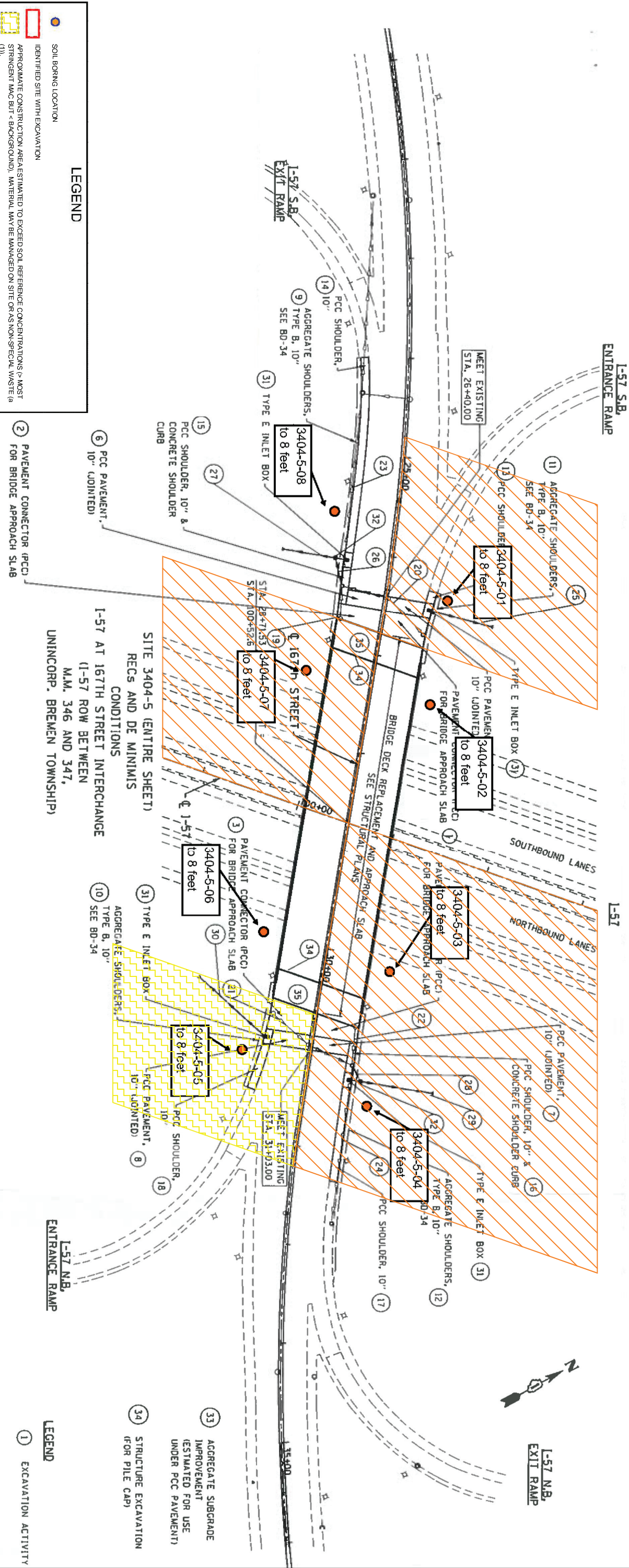

 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

5/14/18
 Date:



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

FIGURE 4-1 EXTENT OF POTENTIALLY IMPACTED SOIL



LEGEND

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

LEGEND

- 2 PAVEMENT CONNECTOR (PCCI) FOR BRIDGE APPROACH SLAB
- 6 PCC PAVEMENT, 10" (JOINTED)
- 15 PCC SHOULDER, 10" & CONCRETE SHOULDER CURB
- 27 PCC SHOULDER, 10" & CONCRETE SHOULDER CURB
- 31 TYPE E INLET BOX
- 3404-5-08 to 8 feet
- 3404-5-07 to 8 feet
- 3404-5-06 to 8 feet
- 3404-5-05 to 8 feet
- 3404-5-04 to 8 feet
- 3404-5-03 to 8 feet
- 3404-5-02 to 8 feet
- 3404-5-01 to 8 feet
- 11 AGGREGATE SHOULDERS, TYPE B, 10" SEE BD-34
- 13 PCC SHOULDER, 10" & CONCRETE SHOULDER CURB
- 14 10"
- 17 PCC SHOULDER, 10"
- 18 PCC SHOULDER, 10" (JOINTED)
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- 31 TYPE E INLET BOX
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FILE NAME =		DESIGNED -		STATE OF ILLINOIS		PESA RESPONSE EXHIBIT	
USER NAME =		DRAWN -		DEPARTMENT OF TRANSPORTATION		ISGS SITE 3404	
PILOT SCALE =		CHECKED -		SCALE: 1" = 100'		SHEET NO. 1 OF 1 SHEETS STA.	
PLOT DATE =		REVISD -		TO STA.		TOTAL SHEET NO. 1	
		DATE -				CONTRACT NO. NO. 60743	
						ILLINOIS FED. AID PROJECT	

LPC-663 Results Table for Sites 3404-5-02, 3404-5-06, 3404-5-08
Soils for Unrestricted Reuse or Disposal Including CCDD/USFO Facilities

Boring ID	3404-5-02	3404-5-02	3404-5-06	3404-5-06	3404-5-08	3404-5-08	DUP-01 (3404-5-08)	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}
Sample Depth, ft	0-4	4-8	0-4	4-8	0-4	4-8	4-8		
Sample Date	3/23/2018								
Excavation Area(s) [ISGS Site No.(s)]	3404-5								
Parameter									
Laboratory soil pH (s.u.)	8.05	8.07	8.09	7.37	7.88	7.65	7.88	6.25 - 9.0	---
VOCs (mg/kg)	Non-Detect								
SVOCs, mg/kg									
Benzo(a)anthracene	0.044	< 0.037	< 0.041	< 0.039	< 0.039	< 0.040	< 0.038	0.9 / 1.1 / 1.8	170
Benzo(a)pyrene	0.044	< 0.037	< 0.041	< 0.039	< 0.039	< 0.040	< 0.038	0.09 / 1.3 / 2.1	17
Benzo(b)fluoranthene	0.046	< 0.037	< 0.041	< 0.039	< 0.039	< 0.040	< 0.038	0.9 / 1.5 / 2.1	170
Benzo(g,h,i)perylene	0.041	< 0.037	< 0.041	< 0.039	< 0.039	< 0.040	< 0.038	---	---
Benzo(k)fluoranthene	0.052	< 0.037	< 0.041	< 0.039	< 0.039	< 0.040	< 0.038	9	1,700
Chrysene	0.05	< 0.037	< 0.041	< 0.039	< 0.039	< 0.040	< 0.038	88	17,000
Dibenzo(a,h)anthracene	0.085	< 0.037	< 0.041	< 0.039	< 0.039	< 0.040	< 0.038	0.09 / 0.2 / 0.42	17
Fluoranthene	0.093	< 0.037	< 0.041	< 0.039	< 0.039	< 0.040	< 0.038	3,100	82,000
Indeno(1,2,3-cd)pyrene	< 0.039	< 0.037	< 0.041	< 0.039	< 0.039	< 0.040	< 0.038	0.9 / 0.9 / 1.6	170
Pentachlorophenol	< 0.080	< 0.076	< 0.083	< 0.080	< 0.079	< 0.081	< 0.077	0.02	520
Phenanthrene	< 0.039	< 0.037	< 0.041	< 0.039	< 0.039	< 0.040	< 0.038	---	---
Pyrene	0.078	< 0.037	< 0.041	< 0.039	< 0.039	< 0.040	< 0.038	2,300	61,000
Total Metals, mg/kg									
Antimony	< 2.0	< 1.9	< 2.1	< 2.2	< 2.2	< 2.2	< 2.0	5	82
Arsenic	8.2	11	7	8.3	9.7	8.6	6	11.3 / 13	61
Barium	73	32	98	130	62	64	58	1,500	14,000
Beryllium	0.8	0.5	0.88	1.1	0.67	0.66	0.54	22	410
Cadmium	< 0.52	< 0.49	< 0.52	< 0.54	< 0.53	< 0.53	< 0.51	5.2	200
Calcium	67000	58000	6200	13000	42000	44000	65000	---	---
Chromium	29	16	24	33	25	23	22	21	690
Cobalt	17	12	7.5	13	16	15	11	20	12,000
Copper	27	31	25	37	34	33	19	2,900	8,200
Iron	30000	23000	24000	33000	29000	24000	20000	15,000 / 15,900	---
Lead	23	19	23	20	20	30	12	107	700
Magnesium	33000	31000	4600	13000	23000	21000	28000	325,000	730,000
Manganese	500	420	130	330	490	380	400	630 / 636	4,100
Mercury	< 0.022	< 0.022	0.032	< 0.023	0.026	0.024	< 0.022	0.89	0.1
Nickel	41	28	28	40	40	36	26	100	4,100
Potassium	3500	1900	1800	2600	2300	2500	2300	---	---
Selenium	< 1.0	< 0.97	1.2	< 1.1	< 1.1	< 1.1	< 1.0	1.3	1,000
Silver	< 1.0	< 0.97	< 1.0	< 1.1	< 1.1	< 1.1	< 1.0	4.4	1,000
Sodium	330	270	250	310	410	860	300	---	---
Thallium	< 1.0	< 0.97	< 1.0	< 1.1	< 1.1	< 1.1	< 1.0	2.6	160
Vanadium	30	19	31	34	27	26	24	550	1,400
Zinc	110	73	69	83	80	87	46	5,100	61,000
TCLP Metals, mg/L								Class I Groundwater ^{c/}	
Arsenic	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010		0.05
Barium	0.8	0.48	0.26	0.76	0.97	0.65	0.91		2
Beryllium	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050		0.004
Cadmium	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050		0.005
Chromium	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010		0.1
Cobalt	0.036	0.022	< 0.010	< 0.010	0.021	0.033	0.03		1
Copper	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		0.65
Iron	3.7	3.6	1.2	2	3.4	3.5	3.4		5
Lead	< 0.0050	< 0.0050	< 0.0050	0.0057	< 0.0050	< 0.0050	< 0.0050		0.0075
Manganese	2.9	1.8	0.15	0.59	7.2	3.7	7.8		0.15
Mercury	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050		0.002
Nickel	0.082	0.028	< 0.010	0.013	0.026	0.046	0.037		0.1
Selenium	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010		0.05
Silver	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010		0.05
Zinc	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050		5
SPLP Metals, mg/L									
Arsenic	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040		0.05
Barium	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020		2
Beryllium	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020		0.004
Cadmium	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020		0.005
Chromium	< 0.0040	< 0.0040	0.0045	0.0049	< 0.0040	< 0.0040	< 0.0040		0.1
Cobalt	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040		1
Copper	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040		0.65
Iron	0.72	1.1	1.7	1.9	0.76	1.8	0.75		5
Lead	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020		0.0075
Manganese	0.01	0.0042	0.0094	0.0065	0.013	0.0085	0.014		0.15
Mercury	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050		0.002
Nickel	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040		0.1
Selenium	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040		0.05
Silver	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040		0.05
Zinc	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020		5

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

^{a/} Soil reference concentrations from MAC table. Background values for MSA counties are included as applicable. Inorganic Soil Reference Concentrations (xx.xx / xx.xx) Include the Most Stringent values from the MPA

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

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

Shaded values indicate concentration exceeds reference concentration

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

April 02, 2018

Huff & Huff, Inc.
915 Harger Road
Oak Brook, IL 60523-1486

Telephone: (630) 684-9100
Fax: (630) 684-9120

Analytical Report for STAT Work Order: 18030597 Revision 0

RE: 81.0220509.24, 167th at I-57, Oak Forest, IL

Dear Jill Connolly:

STAT Analysis received 19 samples for the referenced project on 3/23/2018 1:05:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAP standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Justice Kwateng
Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.

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

Report Date: April 02, 2018

Print Date: April 02, 2018

ANALYTICAL RESULTS

Client: Huff & Huff, Inc.

Client Sample ID: 5-02 (0-4)

Work Order: 18030597 Revision 0

Tag Number:

Project: 81.0220509.24, 167th at I-57, Oak Forest, IL

Collection Date: 3/23/2018 9:39:00 AM

Lab ID: 18030597-003A

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW5035/8260B		Prep Date: 3/23/2018		Analyst: ERP	
Acetone	ND	0.071		mg/Kg-dry	1	3/30/2018
Benzene	ND	0.0047		mg/Kg-dry	1	3/30/2018
Bromodichloromethane	ND	0.0047		mg/Kg-dry	1	3/30/2018
Bromoform	ND	0.0047		mg/Kg-dry	1	3/30/2018
Bromomethane	ND	0.0095		mg/Kg-dry	1	3/30/2018
2-Butanone	ND	0.071		mg/Kg-dry	1	3/30/2018
Carbon disulfide	ND	0.047		mg/Kg-dry	1	3/30/2018
Carbon tetrachloride	ND	0.0047		mg/Kg-dry	1	3/30/2018
Chlorobenzene	ND	0.0047		mg/Kg-dry	1	3/30/2018
Chloroethane	ND	0.0095		mg/Kg-dry	1	3/30/2018
Chloroform	ND	0.0047		mg/Kg-dry	1	3/30/2018
Chloromethane	ND	0.0095		mg/Kg-dry	1	3/30/2018
Dibromochloromethane	ND	0.0047		mg/Kg-dry	1	3/30/2018
1,1-Dichloroethane	ND	0.0047		mg/Kg-dry	1	3/30/2018
1,2-Dichloroethane	ND	0.0047		mg/Kg-dry	1	3/30/2018
1,1-Dichloroethene	ND	0.0047		mg/Kg-dry	1	3/30/2018
cis-1,2-Dichloroethene	ND	0.0047		mg/Kg-dry	1	3/30/2018
trans-1,2-Dichloroethene	ND	0.0047		mg/Kg-dry	1	3/30/2018
1,2-Dichloropropane	ND	0.0047		mg/Kg-dry	1	3/30/2018
cis-1,3-Dichloropropene	ND	0.0019		mg/Kg-dry	1	3/30/2018
trans-1,3-Dichloropropene	ND	0.0019		mg/Kg-dry	1	3/30/2018
Ethylbenzene	ND	0.0047		mg/Kg-dry	1	3/30/2018
2-Hexanone	ND	0.019		mg/Kg-dry	1	3/30/2018
4-Methyl-2-pentanone	ND	0.019		mg/Kg-dry	1	3/30/2018
Methylene chloride	ND	0.0095		mg/Kg-dry	1	3/30/2018
Methyl tert-butyl ether	ND	0.0047		mg/Kg-dry	1	3/30/2018
Styrene	ND	0.0047		mg/Kg-dry	1	3/30/2018
1,1,2,2-Tetrachloroethane	ND	0.0047		mg/Kg-dry	1	3/30/2018
Tetrachloroethene	ND	0.0047		mg/Kg-dry	1	3/30/2018
Toluene	ND	0.0047		mg/Kg-dry	1	3/30/2018
1,1,1-Trichloroethane	ND	0.0047		mg/Kg-dry	1	3/30/2018
1,1,2-Trichloroethane	ND	0.0047		mg/Kg-dry	1	3/30/2018
Trichloroethene	ND	0.0047		mg/Kg-dry	1	3/30/2018
Vinyl chloride	ND	0.0047		mg/Kg-dry	1	3/30/2018
Xylenes, Total	ND	0.014		mg/Kg-dry	1	3/30/2018

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

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

Report Date: April 02, 2018

Print Date: April 02, 2018

ANALYTICAL RESULTS

Client: Huff & Huff, Inc.

Client Sample ID: 5-02 (0-4)

Work Order: 18030597 Revision 0

Tag Number:

Project: 81.0220509.24, 167th at I-57, Oak Forest, IL

Collection Date: 3/23/2018 9:39:00 AM

Lab ID: 18030597-003B

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 3/29/2018	Analyst: DM
Acenaphthene	ND	0.039		mg/Kg-dry	1	3/29/2018
Acenaphthylene	ND	0.039		mg/Kg-dry	1	3/29/2018
Aniline	ND	0.40		mg/Kg-dry	1	3/29/2018
Anthracene	ND	0.039		mg/Kg-dry	1	3/29/2018
Benz(a)anthracene	0.044	0.039		mg/Kg-dry	1	3/29/2018
Benzidine	ND	0.39		mg/Kg-dry	1	3/29/2018
Benzo(a)pyrene	0.044	0.039		mg/Kg-dry	1	3/29/2018
Benzo(b)fluoranthene	0.046	0.039		mg/Kg-dry	1	3/29/2018
Benzo(g,h,i)perylene	0.041	0.039		mg/Kg-dry	1	3/29/2018
Benzo(k)fluoranthene	0.052	0.039		mg/Kg-dry	1	3/29/2018
Benzoic acid	ND	0.99		mg/Kg-dry	1	3/29/2018
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	3/29/2018
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	3/29/2018
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	3/29/2018
Bis(2-ethylhexyl)phthalate	ND	0.99		mg/Kg-dry	1	3/29/2018
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	3/29/2018
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	3/29/2018
Carbazole	ND	0.20		mg/Kg-dry	1	3/29/2018
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	3/29/2018
4-Chloro-3-methylphenol	ND	0.39		mg/Kg-dry	1	3/29/2018
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	3/29/2018
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	3/29/2018
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	3/29/2018
Chrysene	0.050	0.039		mg/Kg-dry	1	3/29/2018
Dibenz(a,h)anthracene	0.085	0.039		mg/Kg-dry	1	3/29/2018
Dibenzofuran	ND	0.20		mg/Kg-dry	1	3/29/2018
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	3/29/2018
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	3/29/2018
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	3/29/2018
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	3/29/2018
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	3/29/2018
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	3/29/2018
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	3/29/2018
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	3/29/2018
4,6-Dinitro-2-methylphenol	ND	0.39		mg/Kg-dry	1	3/29/2018
2,4-Dinitrophenol	ND	0.99		mg/Kg-dry	1	3/29/2018
2,4-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	3/29/2018
2,6-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	3/29/2018

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

STAT Analysis Corporation

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Report Date: April 02, 2018

ANALYTICAL RESULTS

Print Date: April 02, 2018

Client: Huff & Huff, Inc.

Client Sample ID: 5-02 (0-4)

Work Order: 18030597 Revision 0

Tag Number:

Project: 81.0220509.24, 167th at I-57, Oak Forest, IL

Collection Date: 3/23/2018 9:39:00 AM

Lab ID: 18030597-003B

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS SW8270C (SW3550B) Prep Date: 3/29/2018 Analyst: DM

Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	3/29/2018
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	3/29/2018
Fluoranthene	0.093	0.039		mg/Kg-dry	1	3/29/2018
Fluorene	ND	0.039		mg/Kg-dry	1	3/29/2018
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	3/29/2018
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	3/29/2018
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	3/29/2018
Hexachloroethane	ND	0.20		mg/Kg-dry	1	3/29/2018
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	1	3/29/2018
Isophorone	ND	0.20		mg/Kg-dry	1	3/29/2018
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	3/29/2018
2-Methylphenol	ND	0.20		mg/Kg-dry	1	3/29/2018
4-Methylphenol	ND	0.20		mg/Kg-dry	1	3/29/2018
Naphthalene	ND	0.039		mg/Kg-dry	1	3/29/2018
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	3/29/2018
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	3/29/2018
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	3/29/2018
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	3/29/2018
4-Nitrophenol	ND	0.39		mg/Kg-dry	1	3/29/2018
Nitrobenzene	ND	0.039		mg/Kg-dry	1	3/29/2018
N-Nitrosodi-n-propylamine	ND	0.039		mg/Kg-dry	1	3/29/2018
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	3/29/2018
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	3/29/2018
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	3/29/2018
Pentachlorophenol	ND	0.080		mg/Kg-dry	1	3/29/2018
Phenanthrene	ND	0.039		mg/Kg-dry	1	3/29/2018
Phenol	ND	0.20		mg/Kg-dry	1	3/29/2018
Pyrene	0.078	0.039		mg/Kg-dry	1	3/29/2018
Pyridine	ND	0.80		mg/Kg-dry	1	3/29/2018
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	3/29/2018
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	3/29/2018
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	3/29/2018

Metals by ICP/MS SW6020A (SW3050B) Prep Date: 3/27/2018 Analyst: JG

Antimony	ND	2.0		mg/Kg-dry	10	3/28/2018
Arsenic	8.2	1.0		mg/Kg-dry	10	3/28/2018
Barium	73	1.0		mg/Kg-dry	10	3/28/2018
Beryllium	0.80	0.52		mg/Kg-dry	10	3/28/2018
Cadmium	ND	0.52		mg/Kg-dry	10	3/28/2018

Qualifiers:	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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Report Date: April 02, 2018

ANALYTICAL RESULTS

Print Date: April 02, 2018

Client: Huff & Huff, Inc.

Client Sample ID: 5-02 (0-4)

Work Order: 18030597 Revision 0

Tag Number:

Project: 81.0220509.24, 167th at I-57, Oak Forest, IL

Collection Date: 3/23/2018 9:39:00 AM

Lab ID: 18030597-003B

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Metals by ICP/MS

SW6020A (SW3050B)

Prep Date: 3/27/2018

Analyst: JG

Calcium	67000	61		mg/Kg-dry	10	3/28/2018
Chromium	29	1.0		mg/Kg-dry	10	3/28/2018
Cobalt	17	1.0		mg/Kg-dry	10	3/28/2018
Copper	27	2.5		mg/Kg-dry	10	3/28/2018
Iron	30000	31		mg/Kg-dry	10	3/28/2018
Lead	23	0.52		mg/Kg-dry	10	3/28/2018
Magnesium	33000	31		mg/Kg-dry	10	3/28/2018
Manganese	500	1.0		mg/Kg-dry	10	3/28/2018
Nickel	41	1.0		mg/Kg-dry	10	3/28/2018
Potassium	3500	31		mg/Kg-dry	10	3/28/2018
Selenium	ND	1.0		mg/Kg-dry	10	3/28/2018
Silver	ND	1.0		mg/Kg-dry	10	3/28/2018
Sodium	330	61		mg/Kg-dry	10	3/28/2018
Thallium	ND	1.0		mg/Kg-dry	10	3/28/2018
Vanadium	30	1.0		mg/Kg-dry	10	3/28/2018
Zinc	110	5.2		mg/Kg-dry	10	3/28/2018

SPLP Metals by ICP/MS

SW1312/6020A (SW3005A)

Prep Date: 3/29/2018

Analyst: JG

Arsenic	ND	0.0040		mg/L	2	3/29/2018
Barium	ND	0.020		mg/L	2	3/29/2018
Beryllium	ND	0.0020		mg/L	2	3/29/2018
Cadmium	ND	0.0020		mg/L	2	3/29/2018
Chromium	ND	0.0040		mg/L	2	3/29/2018
Cobalt	ND	0.0040		mg/L	2	3/29/2018
Copper	ND	0.040		mg/L	2	3/29/2018
Iron	0.72	0.10		mg/L	2	3/29/2018
Lead	ND	0.0020		mg/L	2	3/29/2018
Manganese	0.010	0.0040		mg/L	2	3/29/2018
Nickel	ND	0.0040		mg/L	2	3/29/2018
Selenium	ND	0.0040		mg/L	2	3/29/2018
Silver	ND	0.0040		mg/L	2	3/29/2018
Zinc	ND	0.020		mg/L	2	3/29/2018

TCLP Metals by ICP/MS

SW1311/6020A (SW3005A)

Prep Date: 3/29/2018

Analyst: JG

Arsenic	ND	0.010		mg/L	5	3/29/2018
Barium	0.80	0.050		mg/L	5	3/29/2018
Beryllium	ND	0.0050		mg/L	5	3/29/2018
Cadmium	ND	0.0050		mg/L	5	3/29/2018
Chromium	ND	0.010		mg/L	5	3/29/2018

Qualifiers:

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

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Report Date: April 02, 2018

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ANALYTICAL RESULTS

Client: Huff & Huff, Inc.

Client Sample ID: 5-02 (0-4)

Work Order: 18030597 Revision 0

Tag Number:

Project: 81.0220509.24, 167th at I-57, Oak Forest, IL

Collection Date: 3/23/2018 9:39:00 AM

Lab ID: 18030597-003B

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Metals by ICP/MS	SW1311/6020A (SW3005A)		Prep Date: 3/29/2018		Analyst: JG	
Cobalt	0.036	0.010		mg/L	5	3/29/2018
Copper	ND	0.10		mg/L	5	3/29/2018
Iron	3.7	0.25		mg/L	5	3/29/2018
Lead	ND	0.0050		mg/L	5	3/29/2018
Manganese	2.9	0.010		mg/L	5	3/29/2018
Nickel	0.082	0.010		mg/L	5	3/29/2018
Selenium	ND	0.010		mg/L	5	3/29/2018
Silver	ND	0.010		mg/L	5	3/29/2018
Zinc	ND	0.050		mg/L	5	3/29/2018
TCLP Mercury	SW1311/7470A		Prep Date: 3/29/2018		Analyst: LB	
Mercury	ND	0.00050		mg/L	1	3/29/2018
SPLP Mercury	SW1312/7470A		Prep Date: 3/29/2018		Analyst: LB	
Mercury	ND	0.00050		mg/L	1	3/29/2018
Mercury	SW7471B		Prep Date: 3/27/2018		Analyst: LB	
Mercury	ND	0.022		mg/Kg-dry	1	3/28/2018
pH (25 °C)	SW9045C		Prep Date: 3/28/2018		Analyst: RW	
pH	8.05			pH Units	1	3/28/2018
Percent Moisture	D2974		Prep Date: 3/27/2018		Analyst: VA	
Percent Moisture	16.8	0.2	*	wt%	1	3/27/2018

Qualifiers:

ND - Not Detected at the Reporting Limit

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Report Date: April 02, 2018

Print Date: April 02, 2018

ANALYTICAL RESULTS

Client: Huff & Huff, Inc.

Client Sample ID: 5-02 (4-8)

Work Order: 18030597 Revision 0

Tag Number:

Project: 81.0220509.24, 167th at I-57, Oak Forest, IL

Collection Date: 3/23/2018 9:45:00 AM

Lab ID: 18030597-004A

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW5035/8260B		Prep Date: 3/23/2018		Analyst: ERP	
Acetone	ND	0.077		mg/Kg-dry	1	3/30/2018
Benzene	ND	0.0052		mg/Kg-dry	1	3/30/2018
Bromodichloromethane	ND	0.0052		mg/Kg-dry	1	3/30/2018
Bromoform	ND	0.0052		mg/Kg-dry	1	3/30/2018
Bromomethane	ND	0.010		mg/Kg-dry	1	3/30/2018
2-Butanone	ND	0.077		mg/Kg-dry	1	3/30/2018
Carbon disulfide	ND	0.052		mg/Kg-dry	1	3/30/2018
Carbon tetrachloride	ND	0.0052		mg/Kg-dry	1	3/30/2018
Chlorobenzene	ND	0.0052		mg/Kg-dry	1	3/30/2018
Chloroethane	ND	0.010		mg/Kg-dry	1	3/30/2018
Chloroform	ND	0.0052		mg/Kg-dry	1	3/30/2018
Chloromethane	ND	0.010		mg/Kg-dry	1	3/30/2018
Dibromochloromethane	ND	0.0052		mg/Kg-dry	1	3/30/2018
1,1-Dichloroethane	ND	0.0052		mg/Kg-dry	1	3/30/2018
1,2-Dichloroethane	ND	0.0052		mg/Kg-dry	1	3/30/2018
1,1-Dichloroethene	ND	0.0052		mg/Kg-dry	1	3/30/2018
cis-1,2-Dichloroethene	ND	0.0052		mg/Kg-dry	1	3/30/2018
trans-1,2-Dichloroethene	ND	0.0052		mg/Kg-dry	1	3/30/2018
1,2-Dichloropropane	ND	0.0052		mg/Kg-dry	1	3/30/2018
cis-1,3-Dichloropropene	ND	0.0021		mg/Kg-dry	1	3/30/2018
trans-1,3-Dichloropropene	ND	0.0021		mg/Kg-dry	1	3/30/2018
Ethylbenzene	ND	0.0052		mg/Kg-dry	1	3/30/2018
2-Hexanone	ND	0.021		mg/Kg-dry	1	3/30/2018
4-Methyl-2-pentanone	ND	0.021		mg/Kg-dry	1	3/30/2018
Methylene chloride	ND	0.010		mg/Kg-dry	1	3/30/2018
Methyl tert-butyl ether	ND	0.0052		mg/Kg-dry	1	3/30/2018
Styrene	ND	0.0052		mg/Kg-dry	1	3/30/2018
1,1,2,2-Tetrachloroethane	ND	0.0052		mg/Kg-dry	1	3/30/2018
Tetrachloroethene	ND	0.0052		mg/Kg-dry	1	3/30/2018
Toluene	ND	0.0052		mg/Kg-dry	1	3/30/2018
1,1,1-Trichloroethane	ND	0.0052		mg/Kg-dry	1	3/30/2018
1,1,2-Trichloroethane	ND	0.0052		mg/Kg-dry	1	3/30/2018
Trichloroethene	ND	0.0052		mg/Kg-dry	1	3/30/2018
Vinyl chloride	ND	0.0052		mg/Kg-dry	1	3/30/2018
Xylenes, Total	ND	0.015		mg/Kg-dry	1	3/30/2018

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 * - Non-accredited parameter

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Report Date: April 02, 2018

ANALYTICAL RESULTS

Print Date: April 02, 2018

Client: Huff & Huff, Inc.

Client Sample ID: 5-02 (4-8)

Work Order: 18030597 Revision 0

Tag Number:

Project: 81.0220509.24, 167th at I-57, Oak Forest, IL

Collection Date: 3/23/2018 9:45:00 AM

Lab ID: 18030597-004B

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)					Prep Date: 3/29/2018 Analyst: DM
Acenaphthene	ND	0.037		mg/Kg-dry	1	3/29/2018
Acenaphthylene	ND	0.037		mg/Kg-dry	1	3/29/2018
Aniline	ND	0.38		mg/Kg-dry	1	3/29/2018
Anthracene	ND	0.037		mg/Kg-dry	1	3/29/2018
Benz(a)anthracene	ND	0.037		mg/Kg-dry	1	3/29/2018
Benzdine	ND	0.37		mg/Kg-dry	1	3/29/2018
Benzo(a)pyrene	ND	0.037		mg/Kg-dry	1	3/29/2018
Benzo(b)fluoranthene	ND	0.037		mg/Kg-dry	1	3/29/2018
Benzo(g,h,i)perylene	ND	0.037		mg/Kg-dry	1	3/29/2018
Benzo(k)fluoranthene	ND	0.037		mg/Kg-dry	1	3/29/2018
Benzoic acid	ND	0.94		mg/Kg-dry	1	3/29/2018
Benzyl alcohol	ND	0.19		mg/Kg-dry	1	3/29/2018
Bis(2-chloroethoxy)methane	ND	0.19		mg/Kg-dry	1	3/29/2018
Bis(2-chloroethyl)ether	ND	0.19		mg/Kg-dry	1	3/29/2018
Bis(2-ethylhexyl)phthalate	ND	0.94		mg/Kg-dry	1	3/29/2018
4-Bromophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	3/29/2018
Butyl benzyl phthalate	ND	0.19		mg/Kg-dry	1	3/29/2018
Carbazole	ND	0.19		mg/Kg-dry	1	3/29/2018
4-Chloroaniline	ND	0.19		mg/Kg-dry	1	3/29/2018
4-Chloro-3-methylphenol	ND	0.37		mg/Kg-dry	1	3/29/2018
2-Chloronaphthalene	ND	0.19		mg/Kg-dry	1	3/29/2018
2-Chlorophenol	ND	0.19		mg/Kg-dry	1	3/29/2018
4-Chlorophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	3/29/2018
Chrysene	ND	0.037		mg/Kg-dry	1	3/29/2018
Dibenz(a,h)anthracene	ND	0.037		mg/Kg-dry	1	3/29/2018
Dibenzofuran	ND	0.19		mg/Kg-dry	1	3/29/2018
1,2-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	3/29/2018
1,3-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	3/29/2018
1,4-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	3/29/2018
3,3'-Dichlorobenzidine	ND	0.19		mg/Kg-dry	1	3/29/2018
2,4-Dichlorophenol	ND	0.19		mg/Kg-dry	1	3/29/2018
Diethyl phthalate	ND	0.19		mg/Kg-dry	1	3/29/2018
2,4-Dimethylphenol	ND	0.19		mg/Kg-dry	1	3/29/2018
Dimethyl phthalate	ND	0.19		mg/Kg-dry	1	3/29/2018
4,6-Dinitro-2-methylphenol	ND	0.37		mg/Kg-dry	1	3/29/2018
2,4-Dinitrophenol	ND	0.94		mg/Kg-dry	1	3/29/2018
2,4-Dinitrotoluene	ND	0.037		mg/Kg-dry	1	3/29/2018
2,6-Dinitrotoluene	ND	0.037		mg/Kg-dry	1	3/29/2018

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

STAT Analysis Corporation

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

Report Date: April 02, 2018

ANALYTICAL RESULTS

Print Date: April 02, 2018

Client: Huff & Huff, Inc.

Client Sample ID: 5-02 (4-8)

Work Order: 18030597 Revision 0

Tag Number:

Project: 81.0220509.24, 167th at I-57, Oak Forest, IL

Collection Date: 3/23/2018 9:45:00 AM

Lab ID: 18030597-004B

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS SW8270C (SW3550B) Prep Date: 3/29/2018 Analyst: DM

Di-n-butyl phthalate	ND	0.19		mg/Kg-dry	1	3/29/2018
Di-n-octyl phthalate	ND	0.19		mg/Kg-dry	1	3/29/2018
Fluoranthene	ND	0.037		mg/Kg-dry	1	3/29/2018
Fluorene	ND	0.037		mg/Kg-dry	1	3/29/2018
Hexachlorobenzene	ND	0.19		mg/Kg-dry	1	3/29/2018
Hexachlorobutadiene	ND	0.19		mg/Kg-dry	1	3/29/2018
Hexachlorocyclopentadiene	ND	0.19		mg/Kg-dry	1	3/29/2018
Hexachloroethane	ND	0.19		mg/Kg-dry	1	3/29/2018
Indeno(1,2,3-cd)pyrene	ND	0.037		mg/Kg-dry	1	3/29/2018
Isophorone	ND	0.19		mg/Kg-dry	1	3/29/2018
2-Methylnaphthalene	ND	0.19		mg/Kg-dry	1	3/29/2018
2-Methylphenol	ND	0.19		mg/Kg-dry	1	3/29/2018
4-Methylphenol	ND	0.19		mg/Kg-dry	1	3/29/2018
Naphthalene	ND	0.037		mg/Kg-dry	1	3/29/2018
2-Nitroaniline	ND	0.19		mg/Kg-dry	1	3/29/2018
3-Nitroaniline	ND	0.19		mg/Kg-dry	1	3/29/2018
4-Nitroaniline	ND	0.19		mg/Kg-dry	1	3/29/2018
2-Nitrophenol	ND	0.19		mg/Kg-dry	1	3/29/2018
4-Nitrophenol	ND	0.37		mg/Kg-dry	1	3/29/2018
Nitrobenzene	ND	0.037		mg/Kg-dry	1	3/29/2018
N-Nitrosodi-n-propylamine	ND	0.037		mg/Kg-dry	1	3/29/2018
N-Nitrosodimethylamine	ND	0.19		mg/Kg-dry	1	3/29/2018
N-Nitrosodiphenylamine	ND	0.19		mg/Kg-dry	1	3/29/2018
2, 2'-oxybis(1-Chloropropane)	ND	0.19		mg/Kg-dry	1	3/29/2018
Pentachlorophenol	ND	0.076		mg/Kg-dry	1	3/29/2018
Phenanthrene	ND	0.037		mg/Kg-dry	1	3/29/2018
Phenol	ND	0.19		mg/Kg-dry	1	3/29/2018
Pyrene	ND	0.037		mg/Kg-dry	1	3/29/2018
Pyridine	ND	0.76		mg/Kg-dry	1	3/29/2018
1,2,4-Trichlorobenzene	ND	0.19		mg/Kg-dry	1	3/29/2018
2,4,5-Trichlorophenol	ND	0.19		mg/Kg-dry	1	3/29/2018
2,4,6-Trichlorophenol	ND	0.19		mg/Kg-dry	1	3/29/2018

Metals by ICP/MS SW6020A (SW3050B) Prep Date: 3/27/2018 Analyst: JG

Antimony	ND	1.9		mg/Kg-dry	10	3/28/2018
Arsenic	11	0.97		mg/Kg-dry	10	3/28/2018
Barium	32	0.97		mg/Kg-dry	10	3/28/2018
Beryllium	0.50	0.49		mg/Kg-dry	10	3/28/2018
Cadmium	ND	0.49		mg/Kg-dry	10	3/28/2018

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

Report Date: April 02, 2018

ANALYTICAL RESULTS

Print Date: April 02, 2018

Client: Huff & Huff, Inc.

Client Sample ID: 5-02 (4-8)

Work Order: 18030597 Revision 0

Tag Number:

Project: 81.0220509.24, 167th at I-57, Oak Forest, IL

Collection Date: 3/23/2018 9:45:00 AM

Lab ID: 18030597-004B

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Metals by ICP/MS

SW6020A (SW3050B)

Prep Date: 3/27/2018

Analyst: JG

Calcium	58000	58		mg/Kg-dry	10	3/28/2018
Chromium	16	0.97		mg/Kg-dry	10	3/28/2018
Cobalt	12	0.97		mg/Kg-dry	10	3/28/2018
Copper	31	2.4		mg/Kg-dry	10	3/28/2018
Iron	23000	30		mg/Kg-dry	10	3/28/2018
Lead	19	0.49		mg/Kg-dry	10	3/28/2018
Magnesium	31000	30		mg/Kg-dry	10	3/28/2018
Manganese	420	0.97		mg/Kg-dry	10	3/28/2018
Nickel	28	0.97		mg/Kg-dry	10	3/28/2018
Potassium	1900	30		mg/Kg-dry	10	3/28/2018
Selenium	ND	0.97		mg/Kg-dry	10	3/28/2018
Silver	ND	0.97		mg/Kg-dry	10	3/28/2018
Sodium	270	58		mg/Kg-dry	10	3/28/2018
Thallium	ND	0.97		mg/Kg-dry	10	3/28/2018
Vanadium	19	0.97		mg/Kg-dry	10	3/28/2018
Zinc	73	4.9		mg/Kg-dry	10	3/28/2018

SPLP Metals by ICP/MS

SW1312/6020A (SW3005A)

Prep Date: 3/29/2018

Analyst: JG

Arsenic	ND	0.0040		mg/L	2	3/29/2018
Barium	ND	0.020		mg/L	2	3/29/2018
Beryllium	ND	0.0020		mg/L	2	3/29/2018
Cadmium	ND	0.0020		mg/L	2	3/29/2018
Chromium	ND	0.0040		mg/L	2	3/29/2018
Cobalt	ND	0.0040		mg/L	2	3/29/2018
Copper	ND	0.040		mg/L	2	3/29/2018
Iron	1.1	0.10		mg/L	2	3/29/2018
Lead	ND	0.0020		mg/L	2	3/29/2018
Manganese	0.0042	0.0040		mg/L	2	3/29/2018
Nickel	ND	0.0040		mg/L	2	3/29/2018
Selenium	ND	0.0040		mg/L	2	3/29/2018
Silver	ND	0.0040		mg/L	2	3/29/2018
Zinc	ND	0.020		mg/L	2	3/29/2018

TCLP Metals by ICP/MS

SW1311/6020A (SW3005A)

Prep Date: 3/29/2018

Analyst: JG

Arsenic	ND	0.010		mg/L	5	3/29/2018
Barium	0.48	0.050		mg/L	5	3/29/2018
Beryllium	ND	0.0050		mg/L	5	3/29/2018
Cadmium	ND	0.0050		mg/L	5	3/29/2018
Chromium	ND	0.010		mg/L	5	3/29/2018

Qualifiers:

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

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Report Date: April 02, 2018

Print Date: April 02, 2018

ANALYTICAL RESULTS

Client: Huff & Huff, Inc.

Client Sample ID: 5-02 (4-8)

Work Order: 18030597 Revision 0

Tag Number:

Project: 81.0220509.24, 167th at I-57, Oak Forest, IL

Collection Date: 3/23/2018 9:45:00 AM

Lab ID: 18030597-004B

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Metals by ICP/MS	SW1311/6020A (SW3005A)		Prep Date: 3/29/2018		Analyst: JG	
Cobalt	0.022	0.010		mg/L	5	3/29/2018
Copper	ND	0.10		mg/L	5	3/29/2018
Iron	3.6	0.25		mg/L	5	3/29/2018
Lead	ND	0.0050		mg/L	5	3/29/2018
Manganese	1.8	0.010		mg/L	5	3/29/2018
Nickel	0.028	0.010		mg/L	5	3/29/2018
Selenium	ND	0.010		mg/L	5	3/29/2018
Silver	ND	0.010		mg/L	5	3/29/2018
Zinc	ND	0.050		mg/L	5	3/29/2018
TCLP Mercury	SW1311/7470A		Prep Date: 3/29/2018		Analyst: LB	
Mercury	ND	0.00050		mg/L	1	3/29/2018
SPLP Mercury	SW1312/7470A		Prep Date: 3/29/2018		Analyst: LB	
Mercury	ND	0.00050		mg/L	1	3/29/2018
Mercury	SW7471B		Prep Date: 3/27/2018		Analyst: LB	
Mercury	ND	0.022		mg/Kg-dry	1	3/28/2018
pH (25 °C)	SW9045C		Prep Date: 3/28/2018		Analyst: RW	
pH	8.07			pH Units	1	3/28/2018
Percent Moisture	D2974		Prep Date: 3/27/2018		Analyst: VA	
Percent Moisture	12.2	0.2	*	wt%	1	3/27/2018

Qualifiers:

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Report Date: April 02, 2018

Print Date: April 02, 2018

ANALYTICAL RESULTS

Client: Huff & Huff, Inc.

Client Sample ID: 5-06 (0-4)

Work Order: 18030597 Revision 0

Tag Number:

Project: 81.0220509.24, 167th at I-57, Oak Forest, IL

Collection Date: 3/23/2018 10:20:00 AM

Lab ID: 18030597-011A

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW5035/8260B		Prep Date: 3/23/2018		Analyst: AET	
Acetone	ND	0.075		mg/Kg-dry	1	3/31/2018
Benzene	ND	0.0050		mg/Kg-dry	1	3/31/2018
Bromodichloromethane	ND	0.0050		mg/Kg-dry	1	3/31/2018
Bromoform	ND	0.0050		mg/Kg-dry	1	3/31/2018
Bromomethane	ND	0.010		mg/Kg-dry	1	3/31/2018
2-Butanone	ND	0.075		mg/Kg-dry	1	3/31/2018
Carbon disulfide	ND	0.050		mg/Kg-dry	1	3/31/2018
Carbon tetrachloride	ND	0.0050		mg/Kg-dry	1	3/31/2018
Chlorobenzene	ND	0.0050		mg/Kg-dry	1	3/31/2018
Chloroethane	ND	0.010		mg/Kg-dry	1	3/31/2018
Chloroform	ND	0.0050		mg/Kg-dry	1	3/31/2018
Chloromethane	ND	0.010		mg/Kg-dry	1	3/31/2018
Dibromochloromethane	ND	0.0050		mg/Kg-dry	1	3/31/2018
1,1-Dichloroethane	ND	0.0050		mg/Kg-dry	1	3/31/2018
1,2-Dichloroethane	ND	0.0050		mg/Kg-dry	1	3/31/2018
1,1-Dichloroethene	ND	0.0050		mg/Kg-dry	1	3/31/2018
cis-1,2-Dichloroethene	ND	0.0050		mg/Kg-dry	1	3/31/2018
trans-1,2-Dichloroethene	ND	0.0050		mg/Kg-dry	1	3/31/2018
1,2-Dichloropropane	ND	0.0050		mg/Kg-dry	1	3/31/2018
cis-1,3-Dichloropropene	ND	0.0020		mg/Kg-dry	1	3/31/2018
trans-1,3-Dichloropropene	ND	0.0020		mg/Kg-dry	1	3/31/2018
Ethylbenzene	ND	0.0050		mg/Kg-dry	1	3/31/2018
2-Hexanone	ND	0.020		mg/Kg-dry	1	3/31/2018
4-Methyl-2-pentanone	ND	0.020		mg/Kg-dry	1	3/31/2018
Methylene chloride	ND	0.010		mg/Kg-dry	1	3/31/2018
Methyl tert-butyl ether	ND	0.0050		mg/Kg-dry	1	3/31/2018
Styrene	ND	0.0050		mg/Kg-dry	1	3/31/2018
1,1,2,2-Tetrachloroethane	ND	0.0050		mg/Kg-dry	1	3/31/2018
Tetrachloroethene	ND	0.0050		mg/Kg-dry	1	3/31/2018
Toluene	ND	0.0050		mg/Kg-dry	1	3/31/2018
1,1,1-Trichloroethane	ND	0.0050		mg/Kg-dry	1	3/31/2018
1,1,2-Trichloroethane	ND	0.0050		mg/Kg-dry	1	3/31/2018
Trichloroethene	ND	0.0050		mg/Kg-dry	1	3/31/2018
Vinyl chloride	ND	0.0050		mg/Kg-dry	1	3/31/2018
Xylenes, Total	ND	0.015		mg/Kg-dry	1	3/31/2018

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

Report Date: April 02, 2018

ANALYTICAL RESULTS

Print Date: April 02, 2018

Client: Huff & Huff, Inc.

Client Sample ID: 5-06 (0-4)

Work Order: 18030597 Revision 0

Tag Number:

Project: 81.0220509.24, 167th at I-57, Oak Forest, IL

Collection Date: 3/23/2018 10:20:00 AM

Lab ID: 18030597-011B

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)					Prep Date: 3/29/2018 Analyst: DM
Acenaphthene	ND	0.041		mg/Kg-dry	1	3/29/2018
Acenaphthylene	ND	0.041		mg/Kg-dry	1	3/29/2018
Aniline	ND	0.41		mg/Kg-dry	1	3/29/2018
Anthracene	ND	0.041		mg/Kg-dry	1	3/29/2018
Benz(a)anthracene	ND	0.041		mg/Kg-dry	1	3/29/2018
Benzidine	ND	0.41		mg/Kg-dry	1	3/29/2018
Benzo(a)pyrene	ND	0.041		mg/Kg-dry	1	3/29/2018
Benzo(b)fluoranthene	ND	0.041		mg/Kg-dry	1	3/29/2018
Benzo(g,h,i)perylene	ND	0.041		mg/Kg-dry	1	3/29/2018
Benzo(k)fluoranthene	ND	0.041		mg/Kg-dry	1	3/29/2018
Benzoic acid	ND	1.0		mg/Kg-dry	1	3/29/2018
Benzyl alcohol	ND	0.21		mg/Kg-dry	1	3/29/2018
Bis(2-chloroethoxy)methane	ND	0.21		mg/Kg-dry	1	3/29/2018
Bis(2-chloroethyl)ether	ND	0.21		mg/Kg-dry	1	3/29/2018
Bis(2-ethylhexyl)phthalate	ND	1.0		mg/Kg-dry	1	3/29/2018
4-Bromophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	3/29/2018
Butyl benzyl phthalate	ND	0.21		mg/Kg-dry	1	3/29/2018
Carbazole	ND	0.21		mg/Kg-dry	1	3/29/2018
4-Chloroaniline	ND	0.21		mg/Kg-dry	1	3/29/2018
4-Chloro-3-methylphenol	ND	0.41		mg/Kg-dry	1	3/29/2018
2-Chloronaphthalene	ND	0.21		mg/Kg-dry	1	3/29/2018
2-Chlorophenol	ND	0.21		mg/Kg-dry	1	3/29/2018
4-Chlorophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	3/29/2018
Chrysene	ND	0.041		mg/Kg-dry	1	3/29/2018
Dibenz(a,h)anthracene	ND	0.041		mg/Kg-dry	1	3/29/2018
Dibenzofuran	ND	0.21		mg/Kg-dry	1	3/29/2018
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	3/29/2018
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	3/29/2018
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	3/29/2018
3,3'-Dichlorobenzidine	ND	0.21		mg/Kg-dry	1	3/29/2018
2,4-Dichlorophenol	ND	0.21		mg/Kg-dry	1	3/29/2018
Diethyl phthalate	ND	0.21		mg/Kg-dry	1	3/29/2018
2,4-Dimethylphenol	ND	0.21		mg/Kg-dry	1	3/29/2018
Dimethyl phthalate	ND	0.21		mg/Kg-dry	1	3/29/2018
4,6-Dinitro-2-methylphenol	ND	0.41		mg/Kg-dry	1	3/29/2018
2,4-Dinitrophenol	ND	1.0		mg/Kg-dry	1	3/29/2018
2,4-Dinitrotoluene	ND	0.041		mg/Kg-dry	1	3/29/2018
2,6-Dinitrotoluene	ND	0.041		mg/Kg-dry	1	3/29/2018

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

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 E - Value above quantitation range
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Report Date: April 02, 2018

ANALYTICAL RESULTS

Print Date: April 02, 2018

Client: Huff & Huff, Inc.

Client Sample ID: 5-06 (0-4)

Work Order: 18030597 Revision 0

Tag Number:

Project: 81.0220509.24, 167th at I-57, Oak Forest, IL

Collection Date: 3/23/2018 10:20:00 AM

Lab ID: 18030597-011B

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS SW8270C (SW3550B) Prep Date: 3/29/2018 Analyst: DM

Di-n-butyl phthalate	ND	0.21		mg/Kg-dry	1	3/29/2018
Di-n-octyl phthalate	ND	0.21		mg/Kg-dry	1	3/29/2018
Fluoranthene	ND	0.041		mg/Kg-dry	1	3/29/2018
Fluorene	ND	0.041		mg/Kg-dry	1	3/29/2018
Hexachlorobenzene	ND	0.21		mg/Kg-dry	1	3/29/2018
Hexachlorobutadiene	ND	0.21		mg/Kg-dry	1	3/29/2018
Hexachlorocyclopentadiene	ND	0.21		mg/Kg-dry	1	3/29/2018
Hexachloroethane	ND	0.21		mg/Kg-dry	1	3/29/2018
Indeno(1,2,3-cd)pyrene	ND	0.041		mg/Kg-dry	1	3/29/2018
Isophorone	ND	0.21		mg/Kg-dry	1	3/29/2018
2-Methylnaphthalene	ND	0.21		mg/Kg-dry	1	3/29/2018
2-Methylphenol	ND	0.21		mg/Kg-dry	1	3/29/2018
4-Methylphenol	ND	0.21		mg/Kg-dry	1	3/29/2018
Naphthalene	ND	0.041		mg/Kg-dry	1	3/29/2018
2-Nitroaniline	ND	0.21		mg/Kg-dry	1	3/29/2018
3-Nitroaniline	ND	0.21		mg/Kg-dry	1	3/29/2018
4-Nitroaniline	ND	0.21		mg/Kg-dry	1	3/29/2018
2-Nitrophenol	ND	0.21		mg/Kg-dry	1	3/29/2018
4-Nitrophenol	ND	0.41		mg/Kg-dry	1	3/29/2018
Nitrobenzene	ND	0.041		mg/Kg-dry	1	3/29/2018
N-Nitrosodi-n-propylamine	ND	0.041		mg/Kg-dry	1	3/29/2018
N-Nitrosodimethylamine	ND	0.21		mg/Kg-dry	1	3/29/2018
N-Nitrosodiphenylamine	ND	0.21		mg/Kg-dry	1	3/29/2018
2, 2'-oxybis(1-Chloropropane)	ND	0.21		mg/Kg-dry	1	3/29/2018
Pentachlorophenol	ND	0.083		mg/Kg-dry	1	3/29/2018
Phenanthrene	ND	0.041		mg/Kg-dry	1	3/29/2018
Phenol	ND	0.21		mg/Kg-dry	1	3/29/2018
Pyrene	ND	0.041		mg/Kg-dry	1	3/29/2018
Pyridine	ND	0.83		mg/Kg-dry	1	3/29/2018
1,2,4-Trichlorobenzene	ND	0.21		mg/Kg-dry	1	3/29/2018
2,4,5-Trichlorophenol	ND	0.21		mg/Kg-dry	1	3/29/2018
2,4,6-Trichlorophenol	ND	0.21		mg/Kg-dry	1	3/29/2018

Metals by ICP/MS SW6020A (SW3050B) Prep Date: 3/27/2018 Analyst: JG

Antimony	ND	2.1		mg/Kg-dry	10	3/28/2018
Arsenic	7.0	1.0		mg/Kg-dry	10	3/28/2018
Barium	98	1.0		mg/Kg-dry	10	3/28/2018
Beryllium	0.88	0.52		mg/Kg-dry	10	3/28/2018
Cadmium	ND	0.52		mg/Kg-dry	10	3/28/2018

Qualifiers:	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

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

Report Date: April 02, 2018

ANALYTICAL RESULTS

Print Date: April 02, 2018

Client: Huff & Huff, Inc.

Client Sample ID: 5-06 (0-4)

Work Order: 18030597 Revision 0

Tag Number:

Project: 81.0220509.24, 167th at I-57, Oak Forest, IL

Collection Date: 3/23/2018 10:20:00 AM

Lab ID: 18030597-011B

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Metals by ICP/MS

SW6020A (SW3050B)

Prep Date: 3/27/2018

Analyst: JG

Calcium	6200	62		mg/Kg-dry	10	3/28/2018
Chromium	24	1.0		mg/Kg-dry	10	3/28/2018
Cobalt	7.5	1.0		mg/Kg-dry	10	3/28/2018
Copper	25	2.6		mg/Kg-dry	10	3/28/2018
Iron	24000	31		mg/Kg-dry	10	3/28/2018
Lead	23	0.52		mg/Kg-dry	10	3/28/2018
Magnesium	4600	31		mg/Kg-dry	10	3/28/2018
Manganese	130	1.0		mg/Kg-dry	10	3/28/2018
Nickel	28	1.0		mg/Kg-dry	10	3/28/2018
Potassium	1800	31		mg/Kg-dry	10	3/28/2018
Selenium	1.2	1.0		mg/Kg-dry	10	3/28/2018
Silver	ND	1.0		mg/Kg-dry	10	3/28/2018
Sodium	250	62		mg/Kg-dry	10	3/28/2018
Thallium	ND	1.0		mg/Kg-dry	10	3/28/2018
Vanadium	31	1.0		mg/Kg-dry	10	3/28/2018
Zinc	69	5.2		mg/Kg-dry	10	3/28/2018

SPLP Metals by ICP/MS

SW1312/6020A (SW3005A)

Prep Date: 3/29/2018

Analyst: JG

Arsenic	ND	0.0040		mg/L	2	3/29/2018
Barium	ND	0.020		mg/L	2	3/29/2018
Beryllium	ND	0.0020		mg/L	2	3/29/2018
Cadmium	ND	0.0020		mg/L	2	3/29/2018
Chromium	0.0045	0.0040		mg/L	2	3/29/2018
Cobalt	ND	0.0040		mg/L	2	3/29/2018
Copper	ND	0.040		mg/L	2	3/29/2018
Iron	1.7	0.10		mg/L	2	3/29/2018
Lead	ND	0.0020		mg/L	2	3/29/2018
Manganese	0.0094	0.0040		mg/L	2	3/29/2018
Nickel	ND	0.0040		mg/L	2	3/29/2018
Selenium	ND	0.0040		mg/L	2	3/29/2018
Silver	ND	0.0040		mg/L	2	3/29/2018
Zinc	ND	0.020		mg/L	2	3/29/2018

TCLP Metals by ICP/MS

SW1311/6020A (SW3005A)

Prep Date: 3/29/2018

Analyst: JG

Arsenic	ND	0.010		mg/L	5	3/29/2018
Barium	0.26	0.050		mg/L	5	3/29/2018
Beryllium	ND	0.0050		mg/L	5	3/29/2018
Cadmium	ND	0.0050		mg/L	5	3/29/2018
Chromium	ND	0.010		mg/L	5	3/29/2018

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

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

Report Date: April 02, 2018

Print Date: April 02, 2018

ANALYTICAL RESULTS

Client: Huff & Huff, Inc.

Client Sample ID: 5-06 (0-4)

Work Order: 18030597 Revision 0

Tag Number:

Project: 81.0220509.24, 167th at I-57, Oak Forest, IL

Collection Date: 3/23/2018 10:20:00 AM

Lab ID: 18030597-011B

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Metals by ICP/MS	SW1311/6020A (SW3005A)		Prep Date: 3/29/2018		Analyst: JG	
Cobalt	ND	0.010		mg/L	5	3/29/2018
Copper	ND	0.10		mg/L	5	3/29/2018
Iron	1.2	0.25		mg/L	5	3/29/2018
Lead	ND	0.0050		mg/L	5	3/29/2018
Manganese	0.15	0.010		mg/L	5	3/29/2018
Nickel	ND	0.010		mg/L	5	3/29/2018
Selenium	ND	0.010		mg/L	5	3/29/2018
Silver	ND	0.010		mg/L	5	3/29/2018
Zinc	ND	0.050		mg/L	5	3/29/2018
TCLP Mercury	SW1311/7470A		Prep Date: 3/29/2018		Analyst: LB	
Mercury	ND	0.00050		mg/L	1	3/29/2018
SPLP Mercury	SW1312/7470A		Prep Date: 3/29/2018		Analyst: LB	
Mercury	ND	0.00050		mg/L	1	3/29/2018
Mercury	SW7471B		Prep Date: 3/27/2018		Analyst: LB	
Mercury	0.032	0.024		mg/Kg-dry	1	3/28/2018
pH (25 °C)	SW9045C		Prep Date: 3/28/2018		Analyst: RW	
pH	8.09			pH Units	1	3/28/2018
Percent Moisture	D2974		Prep Date: 3/27/2018		Analyst: VA	
Percent Moisture	19.6	0.2	*	wt%	1	3/27/2018

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

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E - Value above quantitation range

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Report Date: April 02, 2018

ANALYTICAL RESULTS

Print Date: April 02, 2018

Client: Huff & Huff, Inc.

Client Sample ID: 5-06 (4-8)

Work Order: 18030597 Revision 0

Tag Number:

Project: 81.0220509.24, 167th at I-57, Oak Forest, IL

Collection Date: 3/23/2018 10:24:00 AM

Lab ID: 18030597-012A

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW5035/8260B		Prep Date: 3/23/2018		Analyst: AET	
Acetone	ND	0.068		mg/Kg-dry	1	3/31/2018
Benzene	ND	0.0046		mg/Kg-dry	1	3/31/2018
Bromodichloromethane	ND	0.0046		mg/Kg-dry	1	3/31/2018
Bromoform	ND	0.0046		mg/Kg-dry	1	3/31/2018
Bromomethane	ND	0.0091		mg/Kg-dry	1	3/31/2018
2-Butanone	ND	0.068		mg/Kg-dry	1	3/31/2018
Carbon disulfide	ND	0.046		mg/Kg-dry	1	3/31/2018
Carbon tetrachloride	ND	0.0046		mg/Kg-dry	1	3/31/2018
Chlorobenzene	ND	0.0046		mg/Kg-dry	1	3/31/2018
Chloroethane	ND	0.0091		mg/Kg-dry	1	3/31/2018
Chloroform	ND	0.0046		mg/Kg-dry	1	3/31/2018
Chloromethane	ND	0.0091		mg/Kg-dry	1	3/31/2018
Dibromochloromethane	ND	0.0046		mg/Kg-dry	1	3/31/2018
1,1-Dichloroethane	ND	0.0046		mg/Kg-dry	1	3/31/2018
1,2-Dichloroethane	ND	0.0046		mg/Kg-dry	1	3/31/2018
1,1-Dichloroethene	ND	0.0046		mg/Kg-dry	1	3/31/2018
cis-1,2-Dichloroethene	ND	0.0046		mg/Kg-dry	1	3/31/2018
trans-1,2-Dichloroethene	ND	0.0046		mg/Kg-dry	1	3/31/2018
1,2-Dichloropropane	ND	0.0046		mg/Kg-dry	1	3/31/2018
cis-1,3-Dichloropropene	ND	0.0018		mg/Kg-dry	1	3/31/2018
trans-1,3-Dichloropropene	ND	0.0018		mg/Kg-dry	1	3/31/2018
Ethylbenzene	ND	0.0046		mg/Kg-dry	1	3/31/2018
2-Hexanone	ND	0.018		mg/Kg-dry	1	3/31/2018
4-Methyl-2-pentanone	ND	0.018		mg/Kg-dry	1	3/31/2018
Methylene chloride	ND	0.0091		mg/Kg-dry	1	3/31/2018
Methyl tert-butyl ether	ND	0.0046		mg/Kg-dry	1	3/31/2018
Styrene	ND	0.0046		mg/Kg-dry	1	3/31/2018
1,1,2,2-Tetrachloroethane	ND	0.0046		mg/Kg-dry	1	3/31/2018
Tetrachloroethene	ND	0.0046		mg/Kg-dry	1	3/31/2018
Toluene	ND	0.0046		mg/Kg-dry	1	3/31/2018
1,1,1-Trichloroethane	ND	0.0046		mg/Kg-dry	1	3/31/2018
1,1,2-Trichloroethane	ND	0.0046		mg/Kg-dry	1	3/31/2018
Trichloroethene	ND	0.0046		mg/Kg-dry	1	3/31/2018
Vinyl chloride	ND	0.0046		mg/Kg-dry	1	3/31/2018
Xylenes, Total	ND	0.014		mg/Kg-dry	1	3/31/2018

Qualifiers:
 ND - Not Detected at the Reporting Limit
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 HT - Sample received past holding time
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Report Date: April 02, 2018

ANALYTICAL RESULTS

Print Date: April 02, 2018

Client: Huff & Huff, Inc.

Client Sample ID: 5-06 (4-8)

Work Order: 18030597 Revision 0

Tag Number:

Project: 81.0220509.24, 167th at I-57, Oak Forest, IL

Collection Date: 3/23/2018 10:24:00 AM

Lab ID: 18030597-012B

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)	Prep Date: 3/29/2018			Analyst: DM
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Acenaphthene	ND	0.039		mg/Kg-dry	1	3/29/2018
Acenaphthylene	ND	0.039		mg/Kg-dry	1	3/29/2018
Aniline	ND	0.40		mg/Kg-dry	1	3/29/2018
Anthracene	ND	0.039		mg/Kg-dry	1	3/29/2018
Benz(a)anthracene	ND	0.039		mg/Kg-dry	1	3/29/2018
Benzidine	ND	0.39		mg/Kg-dry	1	3/29/2018
Benzo(a)pyrene	ND	0.039		mg/Kg-dry	1	3/29/2018
Benzo(b)fluoranthene	ND	0.039		mg/Kg-dry	1	3/29/2018
Benzo(g,h,i)perylene	ND	0.039		mg/Kg-dry	1	3/29/2018
Benzo(k)fluoranthene	ND	0.039		mg/Kg-dry	1	3/29/2018
Benzoic acid	ND	0.99		mg/Kg-dry	1	3/29/2018
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	3/29/2018
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	3/29/2018
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	3/29/2018
Bis(2-ethylhexyl)phthalate	ND	0.99		mg/Kg-dry	1	3/29/2018
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	3/29/2018
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	3/29/2018
Carbazole	ND	0.20		mg/Kg-dry	1	3/29/2018
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	3/29/2018
4-Chloro-3-methylphenol	ND	0.39		mg/Kg-dry	1	3/29/2018
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	3/29/2018
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	3/29/2018
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	3/29/2018
Chrysene	ND	0.039		mg/Kg-dry	1	3/29/2018
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	3/29/2018
Dibenzofuran	ND	0.20		mg/Kg-dry	1	3/29/2018
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	3/29/2018
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	3/29/2018
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	3/29/2018
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	3/29/2018
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	3/29/2018
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	3/29/2018
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	3/29/2018
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	3/29/2018
4,6-Dinitro-2-methylphenol	ND	0.39		mg/Kg-dry	1	3/29/2018
2,4-Dinitrophenol	ND	0.99		mg/Kg-dry	1	3/29/2018
2,4-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	3/29/2018
2,6-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	3/29/2018

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
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Report Date: April 02, 2018

ANALYTICAL RESULTS

Print Date: April 02, 2018

Client: Huff & Huff, Inc.

Client Sample ID: 5-06 (4-8)

Work Order: 18030597 Revision 0

Tag Number:

Project: 81.0220509.24, 167th at I-57, Oak Forest, IL

Collection Date: 3/23/2018 10:24:00 AM

Lab ID: 18030597-012B

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS SW8270C (SW3550B) Prep Date: 3/29/2018 Analyst: DM

Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	3/29/2018
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	3/29/2018
Fluoranthene	ND	0.039		mg/Kg-dry	1	3/29/2018
Fluorene	ND	0.039		mg/Kg-dry	1	3/29/2018
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	3/29/2018
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	3/29/2018
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	3/29/2018
Hexachloroethane	ND	0.20		mg/Kg-dry	1	3/29/2018
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	1	3/29/2018
Isophorone	ND	0.20		mg/Kg-dry	1	3/29/2018
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	3/29/2018
2-Methylphenol	ND	0.20		mg/Kg-dry	1	3/29/2018
4-Methylphenol	ND	0.20		mg/Kg-dry	1	3/29/2018
Naphthalene	ND	0.039		mg/Kg-dry	1	3/29/2018
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	3/29/2018
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	3/29/2018
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	3/29/2018
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	3/29/2018
4-Nitrophenol	ND	0.39		mg/Kg-dry	1	3/29/2018
Nitrobenzene	ND	0.039		mg/Kg-dry	1	3/29/2018
N-Nitrosodi-n-propylamine	ND	0.039		mg/Kg-dry	1	3/29/2018
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	3/29/2018
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	3/29/2018
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	3/29/2018
Pentachlorophenol	ND	0.080		mg/Kg-dry	1	3/29/2018
Phenanthrene	ND	0.039		mg/Kg-dry	1	3/29/2018
Phenol	ND	0.20		mg/Kg-dry	1	3/29/2018
Pyrene	ND	0.039		mg/Kg-dry	1	3/29/2018
Pyridine	ND	0.80		mg/Kg-dry	1	3/29/2018
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	3/29/2018
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	3/29/2018
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	3/29/2018

Metals by ICP/MS SW6020A (SW3050B) Prep Date: 3/27/2018 Analyst: JG

Antimony	ND	2.2		mg/Kg-dry	10	3/28/2018
Arsenic	8.3	1.1		mg/Kg-dry	10	3/28/2018
Barium	130	1.1		mg/Kg-dry	10	3/28/2018
Beryllium	1.1	0.54		mg/Kg-dry	10	3/28/2018
Cadmium	ND	0.54		mg/Kg-dry	10	3/28/2018

Qualifiers:	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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Report Date: April 02, 2018

ANALYTICAL RESULTS

Print Date: April 02, 2018

Client: Huff & Huff, Inc.

Client Sample ID: 5-06 (4-8)

Work Order: 18030597 Revision 0

Tag Number:

Project: 81.0220509.24, 167th at I-57, Oak Forest, IL

Collection Date: 3/23/2018 10:24:00 AM

Lab ID: 18030597-012B

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Metals by ICP/MS

SW6020A (SW3050B)

Prep Date: 3/27/2018

Analyst: JG

Calcium	13000	64		mg/Kg-dry	10	3/28/2018
Chromium	33	1.1		mg/Kg-dry	10	3/28/2018
Cobalt	13	1.1		mg/Kg-dry	10	3/28/2018
Copper	37	2.6		mg/Kg-dry	10	3/28/2018
Iron	33000	32		mg/Kg-dry	10	3/28/2018
Lead	20	0.54		mg/Kg-dry	10	3/28/2018
Magnesium	13000	32		mg/Kg-dry	10	3/28/2018
Manganese	330	1.1		mg/Kg-dry	10	3/28/2018
Nickel	40	1.1		mg/Kg-dry	10	3/28/2018
Potassium	2600	32		mg/Kg-dry	10	3/28/2018
Selenium	ND	1.1		mg/Kg-dry	10	3/28/2018
Silver	ND	1.1		mg/Kg-dry	10	3/28/2018
Sodium	310	64		mg/Kg-dry	10	3/28/2018
Thallium	ND	1.1		mg/Kg-dry	10	3/28/2018
Vanadium	34	1.1		mg/Kg-dry	10	3/28/2018
Zinc	83	5.4		mg/Kg-dry	10	3/28/2018

SPLP Metals by ICP/MS

SW1312/6020A (SW3005A)

Prep Date: 3/29/2018

Analyst: JG

Arsenic	ND	0.0040		mg/L	2	3/29/2018
Barium	ND	0.020		mg/L	2	3/29/2018
Beryllium	ND	0.0020		mg/L	2	3/29/2018
Cadmium	ND	0.0020		mg/L	2	3/29/2018
Chromium	0.0049	0.0040		mg/L	2	3/29/2018
Cobalt	ND	0.0040		mg/L	2	3/29/2018
Copper	ND	0.040		mg/L	2	3/29/2018
Iron	1.9	0.10		mg/L	2	3/29/2018
Lead	ND	0.0020		mg/L	2	3/29/2018
Manganese	0.0065	0.0040		mg/L	2	3/29/2018
Nickel	ND	0.0040		mg/L	2	3/29/2018
Selenium	ND	0.0040		mg/L	2	3/29/2018
Silver	ND	0.0040		mg/L	2	3/29/2018
Zinc	ND	0.020		mg/L	2	3/29/2018

TCLP Metals by ICP/MS

SW1311/6020A (SW3005A)

Prep Date: 3/29/2018

Analyst: JG

Arsenic	ND	0.010		mg/L	5	3/29/2018
Barium	0.76	0.050		mg/L	5	3/29/2018
Beryllium	ND	0.0050		mg/L	5	3/29/2018
Cadmium	ND	0.0050		mg/L	5	3/29/2018
Chromium	ND	0.010		mg/L	5	3/29/2018

Qualifiers:

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

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

Report Date: April 02, 2018

Print Date: April 02, 2018

ANALYTICAL RESULTS

Client: Huff & Huff, Inc.

Client Sample ID: 5-06 (4-8)

Work Order: 18030597 Revision 0

Tag Number:

Project: 81.0220509.24, 167th at I-57, Oak Forest, IL

Collection Date: 3/23/2018 10:24:00 AM

Lab ID: 18030597-012B

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Metals by ICP/MS	SW1311/6020A (SW3005A)		Prep Date: 3/29/2018		Analyst: JG	
Cobalt	ND	0.010		mg/L	5	3/29/2018
Copper	ND	0.10		mg/L	5	3/29/2018
Iron	2.0	0.25		mg/L	5	3/29/2018
Lead	0.0057	0.0050		mg/L	5	3/29/2018
Manganese	0.59	0.010		mg/L	5	3/29/2018
Nickel	0.013	0.010		mg/L	5	3/29/2018
Selenium	ND	0.010		mg/L	5	3/29/2018
Silver	ND	0.010		mg/L	5	3/29/2018
Zinc	ND	0.050		mg/L	5	3/29/2018
TCLP Mercury	SW1311/7470A		Prep Date: 3/29/2018		Analyst: LB	
Mercury	ND	0.00050		mg/L	1	3/29/2018
SPLP Mercury	SW1312/7470A		Prep Date: 3/29/2018		Analyst: LB	
Mercury	ND	0.00050		mg/L	1	3/29/2018
Mercury	SW7471B		Prep Date: 3/27/2018		Analyst: LB	
Mercury	ND	0.023		mg/Kg-dry	1	3/28/2018
pH (25 °C)	SW9045C		Prep Date: 3/28/2018		Analyst: RW	
pH	7.37			pH Units	1	3/28/2018
Percent Moisture	D2974		Prep Date: 3/27/2018		Analyst: VA	
Percent Moisture	16.8	0.2	*	wt%	1	3/27/2018

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
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Report Date: April 02, 2018

ANALYTICAL RESULTS

Print Date: April 02, 2018

Client: Huff & Huff, Inc.

Client Sample ID: 5-08 (0-4)

Work Order: 18030597 Revision 0

Tag Number:

Project: 81.0220509.24, 167th at I-57, Oak Forest, IL

Collection Date: 3/23/2018 9:52:00 AM

Lab ID: 18030597-015A

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW5035/8260B		Prep Date: 3/23/2018		Analyst: AET	
Acetone	ND	0.076		mg/Kg-dry	1	3/31/2018
Benzene	ND	0.0051		mg/Kg-dry	1	3/31/2018
Bromodichloromethane	ND	0.0051		mg/Kg-dry	1	3/31/2018
Bromoform	ND	0.0051		mg/Kg-dry	1	3/31/2018
Bromomethane	ND	0.010		mg/Kg-dry	1	3/31/2018
2-Butanone	ND	0.076		mg/Kg-dry	1	3/31/2018
Carbon disulfide	ND	0.051		mg/Kg-dry	1	3/31/2018
Carbon tetrachloride	ND	0.0051		mg/Kg-dry	1	3/31/2018
Chlorobenzene	ND	0.0051		mg/Kg-dry	1	3/31/2018
Chloroethane	ND	0.010		mg/Kg-dry	1	3/31/2018
Chloroform	ND	0.0051		mg/Kg-dry	1	3/31/2018
Chloromethane	ND	0.010		mg/Kg-dry	1	3/31/2018
Dibromochloromethane	ND	0.0051		mg/Kg-dry	1	3/31/2018
1,1-Dichloroethane	ND	0.0051		mg/Kg-dry	1	3/31/2018
1,2-Dichloroethane	ND	0.0051		mg/Kg-dry	1	3/31/2018
1,1-Dichloroethene	ND	0.0051		mg/Kg-dry	1	3/31/2018
cis-1,2-Dichloroethene	ND	0.0051		mg/Kg-dry	1	3/31/2018
trans-1,2-Dichloroethene	ND	0.0051		mg/Kg-dry	1	3/31/2018
1,2-Dichloropropane	ND	0.0051		mg/Kg-dry	1	3/31/2018
cis-1,3-Dichloropropene	ND	0.0020		mg/Kg-dry	1	3/31/2018
trans-1,3-Dichloropropene	ND	0.0020		mg/Kg-dry	1	3/31/2018
Ethylbenzene	ND	0.0051		mg/Kg-dry	1	3/31/2018
2-Hexanone	ND	0.020		mg/Kg-dry	1	3/31/2018
4-Methyl-2-pentanone	ND	0.020		mg/Kg-dry	1	3/31/2018
Methylene chloride	ND	0.010		mg/Kg-dry	1	3/31/2018
Methyl tert-butyl ether	ND	0.0051		mg/Kg-dry	1	3/31/2018
Styrene	ND	0.0051		mg/Kg-dry	1	3/31/2018
1,1,2,2-Tetrachloroethane	ND	0.0051		mg/Kg-dry	1	3/31/2018
Tetrachloroethene	ND	0.0051		mg/Kg-dry	1	3/31/2018
Toluene	ND	0.0051		mg/Kg-dry	1	3/31/2018
1,1,1-Trichloroethane	ND	0.0051		mg/Kg-dry	1	3/31/2018
1,1,2-Trichloroethane	ND	0.0051		mg/Kg-dry	1	3/31/2018
Trichloroethene	ND	0.0051		mg/Kg-dry	1	3/31/2018
Vinyl chloride	ND	0.0051		mg/Kg-dry	1	3/31/2018
Xylenes, Total	ND	0.015		mg/Kg-dry	1	3/31/2018

Qualifiers:
 ND - Not Detected at the Reporting Limit
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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Report Date: April 02, 2018

ANALYTICAL RESULTS

Print Date: April 02, 2018

Client: Huff & Huff, Inc.

Client Sample ID: 5-08 (0-4)

Work Order: 18030597 Revision 0

Tag Number:

Project: 81.0220509.24, 167th at I-57, Oak Forest, IL

Collection Date: 3/23/2018 9:52:00 AM

Lab ID: 18030597-015B

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)	Prep Date: 3/29/2018	Analyst: DM
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Acenaphthene	ND	0.039		mg/Kg-dry	1	3/30/2018
Acenaphthylene	ND	0.039		mg/Kg-dry	1	3/30/2018
Aniline	ND	0.39		mg/Kg-dry	1	3/30/2018
Anthracene	ND	0.039		mg/Kg-dry	1	3/30/2018
Benz(a)anthracene	ND	0.039		mg/Kg-dry	1	3/30/2018
Benzidine	ND	0.39		mg/Kg-dry	1	3/30/2018
Benzo(a)pyrene	ND	0.039		mg/Kg-dry	1	3/30/2018
Benzo(b)fluoranthene	ND	0.039		mg/Kg-dry	1	3/30/2018
Benzo(g,h,i)perylene	ND	0.039		mg/Kg-dry	1	3/30/2018
Benzo(k)fluoranthene	ND	0.039		mg/Kg-dry	1	3/30/2018
Benzoic acid	ND	0.98		mg/Kg-dry	1	3/30/2018
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	3/30/2018
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	3/30/2018
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	3/30/2018
Bis(2-ethylhexyl)phthalate	ND	0.98		mg/Kg-dry	1	3/30/2018
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	3/30/2018
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	3/30/2018
Carbazole	ND	0.20		mg/Kg-dry	1	3/30/2018
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	3/30/2018
4-Chloro-3-methylphenol	ND	0.39		mg/Kg-dry	1	3/30/2018
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	3/30/2018
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	3/30/2018
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	3/30/2018
Chrysene	ND	0.039		mg/Kg-dry	1	3/30/2018
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	3/30/2018
Dibenzofuran	ND	0.20		mg/Kg-dry	1	3/30/2018
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	3/30/2018
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	3/30/2018
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	3/30/2018
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	3/30/2018
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	3/30/2018
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	3/30/2018
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	3/30/2018
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	3/30/2018
4,6-Dinitro-2-methylphenol	ND	0.39		mg/Kg-dry	1	3/30/2018
2,4-Dinitrophenol	ND	0.98		mg/Kg-dry	1	3/30/2018
2,4-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	3/30/2018
2,6-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	3/30/2018

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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Report Date: April 02, 2018

ANALYTICAL RESULTS

Print Date: April 02, 2018

Client: Huff & Huff, Inc.

Client Sample ID: 5-08 (0-4)

Work Order: 18030597 Revision 0

Tag Number:

Project: 81.0220509.24, 167th at I-57, Oak Forest, IL

Collection Date: 3/23/2018 9:52:00 AM

Lab ID: 18030597-015B

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS SW8270C (SW3550B) Prep Date: 3/29/2018 Analyst: DM

Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	3/30/2018
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	3/30/2018
Fluoranthene	ND	0.039		mg/Kg-dry	1	3/30/2018
Fluorene	ND	0.039		mg/Kg-dry	1	3/30/2018
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	3/30/2018
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	3/30/2018
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	3/30/2018
Hexachloroethane	ND	0.20		mg/Kg-dry	1	3/30/2018
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	1	3/30/2018
Isophorone	ND	0.20		mg/Kg-dry	1	3/30/2018
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	3/30/2018
2-Methylphenol	ND	0.20		mg/Kg-dry	1	3/30/2018
4-Methylphenol	ND	0.20		mg/Kg-dry	1	3/30/2018
Naphthalene	ND	0.039		mg/Kg-dry	1	3/30/2018
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	3/30/2018
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	3/30/2018
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	3/30/2018
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	3/30/2018
4-Nitrophenol	ND	0.39		mg/Kg-dry	1	3/30/2018
Nitrobenzene	ND	0.039		mg/Kg-dry	1	3/30/2018
N-Nitrosodi-n-propylamine	ND	0.039		mg/Kg-dry	1	3/30/2018
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	3/30/2018
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	3/30/2018
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	3/30/2018
Pentachlorophenol	ND	0.079		mg/Kg-dry	1	3/30/2018
Phenanthrene	ND	0.039		mg/Kg-dry	1	3/30/2018
Phenol	ND	0.20		mg/Kg-dry	1	3/30/2018
Pyrene	ND	0.039		mg/Kg-dry	1	3/30/2018
Pyridine	ND	0.79		mg/Kg-dry	1	3/30/2018
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	3/30/2018
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	3/30/2018
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	3/30/2018

Metals by ICP/MS SW6020A (SW3050B) Prep Date: 3/27/2018 Analyst: JG

Antimony	ND	2.2		mg/Kg-dry	10	3/28/2018
Arsenic	9.7	1.1		mg/Kg-dry	10	3/28/2018
Barium	62	1.1		mg/Kg-dry	10	3/28/2018
Beryllium	0.67	0.53		mg/Kg-dry	10	3/28/2018
Cadmium	ND	0.53		mg/Kg-dry	10	3/28/2018

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
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Report Date: April 02, 2018

ANALYTICAL RESULTS

Print Date: April 02, 2018

Client: Huff & Huff, Inc.

Client Sample ID: 5-08 (0-4)

Work Order: 18030597 Revision 0

Tag Number:

Project: 81.0220509.24, 167th at I-57, Oak Forest, IL

Collection Date: 3/23/2018 9:52:00 AM

Lab ID: 18030597-015B

Matrix: Soil

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

Prep Date: 3/27/2018

Analyst: JG

Calcium	42000	64		mg/Kg-dry	10	3/28/2018
Chromium	25	1.1		mg/Kg-dry	10	3/28/2018
Cobalt	16	1.1		mg/Kg-dry	10	3/28/2018
Copper	34	2.6		mg/Kg-dry	10	3/28/2018
Iron	29000	31		mg/Kg-dry	10	3/28/2018
Lead	20	0.53		mg/Kg-dry	10	3/28/2018
Magnesium	23000	31		mg/Kg-dry	10	3/28/2018
Manganese	490	1.1		mg/Kg-dry	10	3/28/2018
Nickel	40	1.1		mg/Kg-dry	10	3/28/2018
Potassium	2300	31		mg/Kg-dry	10	3/28/2018
Selenium	ND	1.1		mg/Kg-dry	10	3/28/2018
Silver	ND	1.1		mg/Kg-dry	10	3/28/2018
Sodium	410	64		mg/Kg-dry	10	3/28/2018
Thallium	ND	1.1		mg/Kg-dry	10	3/28/2018
Vanadium	27	1.1		mg/Kg-dry	10	3/28/2018
Zinc	80	5.3		mg/Kg-dry	10	3/28/2018

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

Prep Date: 3/29/2018

Analyst: JG

Arsenic	ND	0.0040		mg/L	2	3/29/2018
Barium	ND	0.020		mg/L	2	3/29/2018
Beryllium	ND	0.0020		mg/L	2	3/29/2018
Cadmium	ND	0.0020		mg/L	2	3/29/2018
Chromium	ND	0.0040		mg/L	2	3/29/2018
Cobalt	ND	0.0040		mg/L	2	3/29/2018
Copper	ND	0.040		mg/L	2	3/29/2018
Iron	0.76	0.10		mg/L	2	3/29/2018
Lead	ND	0.0020		mg/L	2	3/29/2018
Manganese	0.013	0.0040		mg/L	2	3/29/2018
Nickel	ND	0.0040		mg/L	2	3/29/2018
Selenium	ND	0.0040		mg/L	2	3/29/2018
Silver	ND	0.0040		mg/L	2	3/29/2018
Zinc	ND	0.020		mg/L	2	3/29/2018

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

Prep Date: 3/29/2018

Analyst: JG

Arsenic	ND	0.010		mg/L	5	3/29/2018
Barium	0.97	0.050		mg/L	5	3/29/2018
Beryllium	ND	0.0050		mg/L	5	3/29/2018
Cadmium	ND	0.0050		mg/L	5	3/29/2018
Chromium	ND	0.010		mg/L	5	3/29/2018

Qualifiers:

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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Report Date: April 02, 2018

Print Date: April 02, 2018

ANALYTICAL RESULTS

Client: Huff & Huff, Inc.

Client Sample ID: 5-08 (0-4)

Work Order: 18030597 Revision 0

Tag Number:

Project: 81.0220509.24, 167th at I-57, Oak Forest, IL

Collection Date: 3/23/2018 9:52:00 AM

Lab ID: 18030597-015B

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Metals by ICP/MS	SW1311/6020A (SW3005A)		Prep Date: 3/29/2018		Analyst: JG	
Cobalt	0.021	0.010		mg/L	5	3/29/2018
Copper	ND	0.10		mg/L	5	3/29/2018
Iron	3.4	0.25		mg/L	5	3/29/2018
Lead	ND	0.0050		mg/L	5	3/29/2018
Manganese	7.2	0.010		mg/L	5	3/29/2018
Nickel	0.026	0.010		mg/L	5	3/29/2018
Selenium	ND	0.010		mg/L	5	3/29/2018
Silver	ND	0.010		mg/L	5	3/29/2018
Zinc	ND	0.050		mg/L	5	3/29/2018
TCLP Mercury	SW1311/7470A		Prep Date: 3/29/2018		Analyst: LB	
Mercury	ND	0.00050		mg/L	1	3/29/2018
SPLP Mercury	SW1312/7470A		Prep Date: 3/29/2018		Analyst: LB	
Mercury	ND	0.00050		mg/L	1	3/29/2018
Mercury	SW7471B		Prep Date: 3/27/2018		Analyst: LB	
Mercury	0.026	0.023		mg/Kg-dry	1	3/28/2018
pH (25 °C)	SW9045C		Prep Date: 3/28/2018		Analyst: RW	
pH	7.88			pH Units	1	3/28/2018
Percent Moisture	D2974		Prep Date: 3/27/2018		Analyst: VA	
Percent Moisture	16.9	0.2	*	wt%	1	3/27/2018

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

Report Date: April 02, 2018

Print Date: April 02, 2018

ANALYTICAL RESULTS

Client: Huff & Huff, Inc.

Client Sample ID: 5-08 (4-8)

Work Order: 18030597 Revision 0

Tag Number:

Project: 81.0220509.24, 167th at I-57, Oak Forest, IL

Collection Date: 3/23/2018 9:56:00 AM

Lab ID: 18030597-016A

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW5035/8260B				Prep Date: 3/23/2018	Analyst: AET
Acetone	ND	0.084		mg/Kg-dry	1	3/31/2018
Benzene	ND	0.0056		mg/Kg-dry	1	3/31/2018
Bromodichloromethane	ND	0.0056		mg/Kg-dry	1	3/31/2018
Bromoform	ND	0.0056		mg/Kg-dry	1	3/31/2018
Bromomethane	ND	0.011		mg/Kg-dry	1	3/31/2018
2-Butanone	ND	0.084		mg/Kg-dry	1	3/31/2018
Carbon disulfide	ND	0.056		mg/Kg-dry	1	3/31/2018
Carbon tetrachloride	ND	0.0056		mg/Kg-dry	1	3/31/2018
Chlorobenzene	ND	0.0056		mg/Kg-dry	1	3/31/2018
Chloroethane	ND	0.011		mg/Kg-dry	1	3/31/2018
Chloroform	ND	0.0056		mg/Kg-dry	1	3/31/2018
Chloromethane	ND	0.011		mg/Kg-dry	1	3/31/2018
Dibromochloromethane	ND	0.0056		mg/Kg-dry	1	3/31/2018
1,1-Dichloroethane	ND	0.0056		mg/Kg-dry	1	3/31/2018
1,2-Dichloroethane	ND	0.0056		mg/Kg-dry	1	3/31/2018
1,1-Dichloroethene	ND	0.0056		mg/Kg-dry	1	3/31/2018
cis-1,2-Dichloroethene	ND	0.0056		mg/Kg-dry	1	3/31/2018
trans-1,2-Dichloroethene	ND	0.0056		mg/Kg-dry	1	3/31/2018
1,2-Dichloropropane	ND	0.0056		mg/Kg-dry	1	3/31/2018
cis-1,3-Dichloropropene	ND	0.0022		mg/Kg-dry	1	3/31/2018
trans-1,3-Dichloropropene	ND	0.0022		mg/Kg-dry	1	3/31/2018
Ethylbenzene	ND	0.0056		mg/Kg-dry	1	3/31/2018
2-Hexanone	ND	0.022		mg/Kg-dry	1	3/31/2018
4-Methyl-2-pentanone	ND	0.022		mg/Kg-dry	1	3/31/2018
Methylene chloride	ND	0.011		mg/Kg-dry	1	3/31/2018
Methyl tert-butyl ether	ND	0.0056		mg/Kg-dry	1	3/31/2018
Styrene	ND	0.0056		mg/Kg-dry	1	3/31/2018
1,1,2,2-Tetrachloroethane	ND	0.0056		mg/Kg-dry	1	3/31/2018
Tetrachloroethene	ND	0.0056		mg/Kg-dry	1	3/31/2018
Toluene	ND	0.0056		mg/Kg-dry	1	3/31/2018
1,1,1-Trichloroethane	ND	0.0056		mg/Kg-dry	1	3/31/2018
1,1,2-Trichloroethane	ND	0.0056		mg/Kg-dry	1	3/31/2018
Trichloroethene	ND	0.0056		mg/Kg-dry	1	3/31/2018
Vinyl chloride	ND	0.0056		mg/Kg-dry	1	3/31/2018
Xylenes, Total	ND	0.017		mg/Kg-dry	1	3/31/2018

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Report Date: April 02, 2018

ANALYTICAL RESULTS

Print Date: April 02, 2018

Client: Huff & Huff, Inc.

Client Sample ID: 5-08 (4-8)

Work Order: 18030597 Revision 0

Tag Number:

Project: 81.0220509.24, 167th at I-57, Oak Forest, IL

Collection Date: 3/23/2018 9:56:00 AM

Lab ID: 18030597-016B

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)					Prep Date: 3/29/2018 Analyst: DM
Acenaphthene	ND	0.040		mg/Kg-dry	1	3/30/2018
Acenaphthylene	ND	0.040		mg/Kg-dry	1	3/30/2018
Aniline	ND	0.40		mg/Kg-dry	1	3/30/2018
Anthracene	ND	0.040		mg/Kg-dry	1	3/30/2018
Benz(a)anthracene	ND	0.040		mg/Kg-dry	1	3/30/2018
Benzidine	ND	0.40		mg/Kg-dry	1	3/30/2018
Benzo(a)pyrene	ND	0.040		mg/Kg-dry	1	3/30/2018
Benzo(b)fluoranthene	ND	0.040		mg/Kg-dry	1	3/30/2018
Benzo(g,h,i)perylene	ND	0.040		mg/Kg-dry	1	3/30/2018
Benzo(k)fluoranthene	ND	0.040		mg/Kg-dry	1	3/30/2018
Benzoic acid	ND	1.0		mg/Kg-dry	1	3/30/2018
Benzyl alcohol	ND	0.21		mg/Kg-dry	1	3/30/2018
Bis(2-chloroethoxy)methane	ND	0.21		mg/Kg-dry	1	3/30/2018
Bis(2-chloroethyl)ether	ND	0.21		mg/Kg-dry	1	3/30/2018
Bis(2-ethylhexyl)phthalate	ND	1.0		mg/Kg-dry	1	3/30/2018
4-Bromophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	3/30/2018
Butyl benzyl phthalate	ND	0.21		mg/Kg-dry	1	3/30/2018
Carbazole	ND	0.21		mg/Kg-dry	1	3/30/2018
4-Chloroaniline	ND	0.21		mg/Kg-dry	1	3/30/2018
4-Chloro-3-methylphenol	ND	0.40		mg/Kg-dry	1	3/30/2018
2-Chloronaphthalene	ND	0.21		mg/Kg-dry	1	3/30/2018
2-Chlorophenol	ND	0.21		mg/Kg-dry	1	3/30/2018
4-Chlorophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	3/30/2018
Chrysene	ND	0.040		mg/Kg-dry	1	3/30/2018
Dibenz(a,h)anthracene	ND	0.040		mg/Kg-dry	1	3/30/2018
Dibenzofuran	ND	0.21		mg/Kg-dry	1	3/30/2018
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	3/30/2018
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	3/30/2018
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	3/30/2018
3,3'-Dichlorobenzidine	ND	0.21		mg/Kg-dry	1	3/30/2018
2,4-Dichlorophenol	ND	0.21		mg/Kg-dry	1	3/30/2018
Diethyl phthalate	ND	0.21		mg/Kg-dry	1	3/30/2018
2,4-Dimethylphenol	ND	0.21		mg/Kg-dry	1	3/30/2018
Dimethyl phthalate	ND	0.21		mg/Kg-dry	1	3/30/2018
4,6-Dinitro-2-methylphenol	ND	0.40		mg/Kg-dry	1	3/30/2018
2,4-Dinitrophenol	ND	1.0		mg/Kg-dry	1	3/30/2018
2,4-Dinitrotoluene	ND	0.040		mg/Kg-dry	1	3/30/2018
2,6-Dinitrotoluene	ND	0.040		mg/Kg-dry	1	3/30/2018

Qualifiers:
 ND - Not Detected at the Reporting Limit
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Report Date: April 02, 2018

ANALYTICAL RESULTS

Print Date: April 02, 2018

Client: Huff & Huff, Inc.

Client Sample ID: 5-08 (4-8)

Work Order: 18030597 Revision 0

Tag Number:

Project: 81.0220509.24, 167th at I-57, Oak Forest, IL

Collection Date: 3/23/2018 9:56:00 AM

Lab ID: 18030597-016B

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS SW8270C (SW3550B) Prep Date: 3/29/2018 Analyst: DM

Di-n-butyl phthalate	ND	0.21		mg/Kg-dry	1	3/30/2018
Di-n-octyl phthalate	ND	0.21		mg/Kg-dry	1	3/30/2018
Fluoranthene	ND	0.040		mg/Kg-dry	1	3/30/2018
Fluorene	ND	0.040		mg/Kg-dry	1	3/30/2018
Hexachlorobenzene	ND	0.21		mg/Kg-dry	1	3/30/2018
Hexachlorobutadiene	ND	0.21		mg/Kg-dry	1	3/30/2018
Hexachlorocyclopentadiene	ND	0.21		mg/Kg-dry	1	3/30/2018
Hexachloroethane	ND	0.21		mg/Kg-dry	1	3/30/2018
Indeno(1,2,3-cd)pyrene	ND	0.040		mg/Kg-dry	1	3/30/2018
Isophorone	ND	0.21		mg/Kg-dry	1	3/30/2018
2-Methylnaphthalene	ND	0.21		mg/Kg-dry	1	3/30/2018
2-Methylphenol	ND	0.21		mg/Kg-dry	1	3/30/2018
4-Methylphenol	ND	0.21		mg/Kg-dry	1	3/30/2018
Naphthalene	ND	0.040		mg/Kg-dry	1	3/30/2018
2-Nitroaniline	ND	0.21		mg/Kg-dry	1	3/30/2018
3-Nitroaniline	ND	0.21		mg/Kg-dry	1	3/30/2018
4-Nitroaniline	ND	0.21		mg/Kg-dry	1	3/30/2018
2-Nitrophenol	ND	0.21		mg/Kg-dry	1	3/30/2018
4-Nitrophenol	ND	0.40		mg/Kg-dry	1	3/30/2018
Nitrobenzene	ND	0.040		mg/Kg-dry	1	3/30/2018
N-Nitrosodi-n-propylamine	ND	0.040		mg/Kg-dry	1	3/30/2018
N-Nitrosodimethylamine	ND	0.21		mg/Kg-dry	1	3/30/2018
N-Nitrosodiphenylamine	ND	0.21		mg/Kg-dry	1	3/30/2018
2, 2'-oxybis(1-Chloropropane)	ND	0.21		mg/Kg-dry	1	3/30/2018
Pentachlorophenol	ND	0.081		mg/Kg-dry	1	3/30/2018
Phenanthrene	ND	0.040		mg/Kg-dry	1	3/30/2018
Phenol	ND	0.21		mg/Kg-dry	1	3/30/2018
Pyrene	ND	0.040		mg/Kg-dry	1	3/30/2018
Pyridine	ND	0.81		mg/Kg-dry	1	3/30/2018
1,2,4-Trichlorobenzene	ND	0.21		mg/Kg-dry	1	3/30/2018
2,4,5-Trichlorophenol	ND	0.21		mg/Kg-dry	1	3/30/2018
2,4,6-Trichlorophenol	ND	0.21		mg/Kg-dry	1	3/30/2018

Metals by ICP/MS SW6020A (SW3050B) Prep Date: 3/27/2018 Analyst: JG

Antimony	ND	2.2		mg/Kg-dry	10	3/28/2018
Arsenic	8.6	1.1		mg/Kg-dry	10	3/28/2018
Barium	64	1.1		mg/Kg-dry	10	3/28/2018
Beryllium	0.66	0.53		mg/Kg-dry	10	3/28/2018
Cadmium	ND	0.53		mg/Kg-dry	10	3/28/2018

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
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Report Date: April 02, 2018

ANALYTICAL RESULTS

Print Date: April 02, 2018

Client: Huff & Huff, Inc.

Client Sample ID: 5-08 (4-8)

Work Order: 18030597 Revision 0

Tag Number:

Project: 81.0220509.24, 167th at I-57, Oak Forest, IL

Collection Date: 3/23/2018 9:56:00 AM

Lab ID: 18030597-016B

Matrix: Soil

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

Prep Date: 3/27/2018

Analyst: JG

Calcium	44000	64		mg/Kg-dry	10	3/28/2018
Chromium	23	1.1		mg/Kg-dry	10	3/28/2018
Cobalt	15	1.1		mg/Kg-dry	10	3/28/2018
Copper	33	2.7		mg/Kg-dry	10	3/28/2018
Iron	24000	32		mg/Kg-dry	10	3/28/2018
Lead	30	0.53		mg/Kg-dry	10	3/28/2018
Magnesium	21000	32		mg/Kg-dry	10	3/28/2018
Manganese	380	1.1		mg/Kg-dry	10	3/28/2018
Nickel	36	1.1		mg/Kg-dry	10	3/28/2018
Potassium	2500	32		mg/Kg-dry	10	3/28/2018
Selenium	ND	1.1		mg/Kg-dry	10	3/28/2018
Silver	ND	1.1		mg/Kg-dry	10	3/28/2018
Sodium	860	64		mg/Kg-dry	10	3/28/2018
Thallium	ND	1.1		mg/Kg-dry	10	3/28/2018
Vanadium	26	1.1		mg/Kg-dry	10	3/28/2018
Zinc	87	5.3		mg/Kg-dry	10	3/28/2018

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

Prep Date: 3/29/2018

Analyst: JG

Arsenic	ND	0.0040		mg/L	2	3/29/2018
Barium	ND	0.020		mg/L	2	3/29/2018
Beryllium	ND	0.0020		mg/L	2	3/29/2018
Cadmium	ND	0.0020		mg/L	2	3/29/2018
Chromium	ND	0.0040		mg/L	2	3/29/2018
Cobalt	ND	0.0040		mg/L	2	3/29/2018
Copper	ND	0.040		mg/L	2	3/29/2018
Iron	1.8	0.10		mg/L	2	3/29/2018
Lead	ND	0.0020		mg/L	2	3/29/2018
Manganese	0.0085	0.0040		mg/L	2	3/29/2018
Nickel	ND	0.0040		mg/L	2	3/29/2018
Selenium	ND	0.0040		mg/L	2	3/29/2018
Silver	ND	0.0040		mg/L	2	3/29/2018
Zinc	ND	0.020		mg/L	2	3/29/2018

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

Prep Date: 3/29/2018

Analyst: JG

Arsenic	ND	0.010		mg/L	5	3/29/2018
Barium	0.65	0.050		mg/L	5	3/29/2018
Beryllium	ND	0.0050		mg/L	5	3/29/2018
Cadmium	ND	0.0050		mg/L	5	3/29/2018
Chromium	ND	0.010		mg/L	5	3/29/2018

Qualifiers:
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Report Date: April 02, 2018

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ANALYTICAL RESULTS

Client: Huff & Huff, Inc.

Client Sample ID: 5-08 (4-8)

Work Order: 18030597 Revision 0

Tag Number:

Project: 81.0220509.24, 167th at I-57, Oak Forest, IL

Collection Date: 3/23/2018 9:56:00 AM

Lab ID: 18030597-016B

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Metals by ICP/MS	SW1311/6020A (SW3005A)		Prep Date: 3/29/2018		Analyst: JG	
Cobalt	0.033	0.010		mg/L	5	3/29/2018
Copper	ND	0.10		mg/L	5	3/29/2018
Iron	3.5	0.25		mg/L	5	3/29/2018
Lead	ND	0.0050		mg/L	5	3/29/2018
Manganese	3.7	0.010		mg/L	5	3/29/2018
Nickel	0.046	0.010		mg/L	5	3/29/2018
Selenium	ND	0.010		mg/L	5	3/29/2018
Silver	ND	0.010		mg/L	5	3/29/2018
Zinc	ND	0.050		mg/L	5	3/29/2018
TCLP Mercury	SW1311/7470A		Prep Date: 3/29/2018		Analyst: LB	
Mercury	ND	0.00050		mg/L	1	3/29/2018
SPLP Mercury	SW1312/7470A		Prep Date: 3/29/2018		Analyst: LB	
Mercury	ND	0.00050		mg/L	1	3/29/2018
Mercury	SW7471B		Prep Date: 3/27/2018		Analyst: LB	
Mercury	0.024	0.019		mg/Kg-dry	1	3/28/2018
pH (25 °C)	SW9045C		Prep Date: 3/28/2018		Analyst: RW	
pH	7.65			pH Units	1	3/28/2018
Percent Moisture	D2974		Prep Date: 3/27/2018		Analyst: VA	
Percent Moisture	17.6	0.2	*	wt%	1	3/27/2018

Qualifiers:

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